\\USER\Shana\FPET\fPET_rest\t1_mprage_sag 1 iso

Duna and an		Distortion Corr.	On
Properties	0"	Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Unfiltered images	Off
After measurement	0	Prescan Normalize	On
Load to viewer	On	Normalize	Off
Inline movie	Off	B1 filter	Off
Auto store images	On	Raw filter	Off
Load to stamp segments	On Off	Elliptical filter	On
Load images to graphic segments		Mode	Inplane
Auto open inline display	Off	Geometry	Oire ale ale at
Start measurement without	On	Multi-slice mode	Single shot
further preparation	On	Series	Ascending
Wait for user to start	On		
Start measurements	single	Set-n-Go Protocol	Off
Routine		Table Position	Н
Slab group 1		Table Position	0 mm
Slabs	1	Inline Composing	Off
Dist. factor	50 %	System	
Position	Isocenter	Body	Off
Orientation	S > C5.0 > T-1.8	HEP	On
Phase enc. dir.	A >> P	NEP	On
Rotation	0.00 deg	HEA	On
Phase oversampling	0 %	SP4	Off
Slice oversampling	18.2 %	SP2	Off
Slices Per Slab	176	SP8	Off
FoV read	256 mm	SP6	Off
FoV phase	100.0 %	SP3	Off
Slice thickness	1.00 mm	SP1	Off
TR	1640 ms	SP7	Off
TE	2.34 ms	SP5	Off
Averages	1	Positioning mode	FIX
Concatenations	1	MSMA	S-C-T
Filter	Distortion Corr.(2D), Prescan	Sagittal	R>>L
Out of the second	Normalize, Elliptical filter	Coronal	P >> A
Coil elements	HEA;HEP;NEP	Transversal	F>>H
Contrast		Save uncombined	Off
Magn. preparation	Non-sel. IR	Coil Combine Mode	Adaptive Combine
TI .	900 ms	Auto Coil Select	Default
Flip Angle	8 deg		
Fat suppr.	None	Shim Mode	Tune up
Water suppr.	None	Adjust with body coil	Off
A	Lang taum	Confirm freq. adjustment	Off
Averaging mode Reconstruction	Long term	Assume Silicone	Off
Measurements	Magnitude	? Ref. amplitude 1H	0.000 V
Multiple series	Each measurement	Adjustment Tolerance	Auto
•	Laurmeasurement	Adjust volume	la a comto :
Resolution		Position	Isocenter
Base resolution	256	Orientation	Transversal
Phase resolution	100 %	Rotation	0.00 deg
Slice resolution	100 %	R >> L	350 mm
Phase partial Fourier	Off	A >> P	263 mm
Slice partial Fourier	Off	F >> H	350 mm
Interpolation	Off	Physio	
PAT mode	GRAPPA	1st Signal/Mode	None
Accel. factor PE	2		
Ref. lines PE	24	Dark blood	Off
Accel. factor 3D	2 4 1	Resp. control	Off
	-	•	
Matrix Coil Mode	Auto (Triple)	Inline	
Reference scan mode	Integrated	Subtract	Off
Image Filter	Off	Std-Dev-Sag	Off
··· · · · · · · · · · · · · · · · · ·		Std-Dev-Cor	Off

Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save Original Images	On

Coquence	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Allowed
Bandwidth	190 Hz/Px
Flow comp.	No
Echo spacing	7 ms
RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

\\USER\Shana\FPET\fPET_rest\gre_field_mapping

SIEMENS: gre_field_mapping

Voxel size: 3.0×3.0×3.0 mm Rel. SNR: 1.00

TA: 1:02

TA. 1.02	70xer size. 3.0x3.0x3.0 mm	Hei. Sinn. 1.00 Sieweins. g	ле_пеіа_тарріпу
Properties		Special sat.	None
Prio Recon	Off	Set-n-Go Protocol	Off
Before measurement		Table Position	H
After measurement		Table Position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off		011
Auto store images	On	System	
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments	Oli	NEP	On
Auto open inline display	Off	HEA	On
Start measurement without		SP4	Off
	On	SP2	Off
further preparation	0"	SP8	Off
Wait for user to start	Off	SP6	Off
Start measurements	single	SP3	Off
Routine		SP1	Off
Slice group 1		_ SP7	Off
Slices	44	SP5	Off
Dist. factor	0 %		
		Positioning mode	FIX
Position	Isocenter	MSMA	S - C - T
Orientation	T > C-2.4 > S-0.2	Sagittal	R >> L
Phase enc. dir.	R >> L	Coronal	A >> P
Rotation	90.00 deg	Transversal	F >> H
Phase oversampling	0 %	Save uncombined	Off
FoV read	190 mm	Coil Combine Mode	Sum of Squares
FoV phase	100.0 %		Off
Slice thickness	3.0 mm	Auto Coil Select	Oli
TR	466 ms	Shim Mode	Standard
TE 1	4.92 ms	Adjust with body coil	Off
TE 2	7.38 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	Prescan Normalize	Adjustment Tolerance	Auto
Coil elements	HEA;HEP;NEP	Adjust volume	Auto
ı		Position	Isocenter
Contrast		- Orientation	T > C-2.4 > S-0.2
MTC	Off		
Flip Angle	60 deg	Rotation	90.00 deg
Fat suppr.	None	A >> P	190 mm
A		R>>L	190 mm
Averaging mode	Long term	F >> H	132 mm
Reconstruction	Magn./Phase	Composing	
Measurements	1		
Multiple series	Off	Sequence	
Resolution		Introduction	On
Base resolution	64	Dimension	2D
Phase resolution	100 %	Asymmetric echo	Off
Phase partial Fourier	Off	Contrasts	2
Interpolation	Off	Bandwidth	260 Hz/Px
	OII	Flow comp.	Yes
Matrix Coil Mode	Auto (CP)	RF pulse type	Normal
Image Filter	Off	Gradient mode	Normal
Distortion Corr.	Off	RF spoiling	On
Unfiltered images	Off		
Prescan Normalize	On		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
Emplical filler	OII		
Geometry			
Multi-slice mode	Interleaved	<u> </u>	
Series	Interleaved		

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		····	
Properties Properties	0#	Special sat.	None
Prio Recon Before measurement	Off	Set-n-Go Protocol	Off
After measurement		Table Position	Н
Load to viewer	On	Table Position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	System	
Load to stamp segments	Off	System Body	Off
Load images to graphic	Off	HEP	On
segments		NEP	Off
Auto open inline display	Off	HEA	On
Start measurement without	On	NEA	Off
further preparation		SP4	Off
Wait for user to start	On	SP2	Off
Start measurements	single	SP8	Off
Routine	-	SP6	Off
		SP3	Off
Slice group 1 Slices	44	SP1	Off
Dist. factor	0 %	SP7	Off
Position	Isocenter	SP5	Off
Orientation	Transversal	Docitioning made	FIV
Phase enc. dir.	R >> L	Positioning mode	FIX
Rotation	90.00 deg	MSMA	S-C-T
Phase oversampling	0 %	Sagittal Coronal	R >> L A >> P
FoV read	190 mm	Transversal	F >> H
FoV phase	100.0 %		
Slice thickness	3.0 mm	Coil Combine Mode	Sum of Squares
TR	2450 ms	Auto Coil Select	Off
TE	30 ms	Shim Mode	Standard
Averages	1	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	Prescan Normalize	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
ı		Adjustment Tolerance	Auto
Contrast		Adjust volume	
MTC	Off	Position	Isocenter
Flip Angle	90 deg	Orientation	Transversal
Fat suppr.	Fat sat.	Rotation	90.00 deg
Averaging mode	Long term	A >> P	190 mm
Reconstruction	Magnitude	R >> L	190 mm
Measurements	242	F>>> H	132 mm
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Resolution		1	
Base resolution	64	BOLD CLM Statistics	O#
Phase resolution	100 %	GLM Statistics	Off Off
Phase partial Fourier	Off	Dynamic t-maps	
Interpolation	Off	Starting ignore meas Ignore after transition	0 0
		Model transition states	On
PAT mode	GRAPPA	Temp. highpass filter	On
Accel. factor PE	2	Threshold	4.00
Ref. lines PE	24	Paradigm size	20
Matrix Coil Mode	Auto (Triple)	Meas[1]	Baseline
Reference scan mode	Separate	Meas[2]	Baseline
Distortion Corr.	Off	Meas[3]	Baseline
Prescan Normalize	On	Meas[4]	Baseline
Raw filter	On	Meas[5]	Baseline
Elliptical filter	Off	Meas[6]	Baseline
Hamming	Off	Meas[7]	Baseline
		Meas[8]	Baseline
Geometry	Literature	Meas[9]	Baseline
Multi-slice mode	Interleaved	Meas[10]	Baseline
Series	Interleaved	1 * 4	

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

Introduction	On
Bandwidth	2368 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

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Properties		Special sat.	None
Prio Recon	Off	-	
Before measurement		Set-n-Go Protocol	Off
After measurement		Table Position	Н
Load to viewer	On	Table Position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	System	
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments		NEP	Off
Auto open inline display	Off	HEA	On
Start measurement without	On	NEA	Off
further preparation		SP4	Off
Wait for user to start	On	SP2	Off
Start measurements	single	SP8	Off
Douting		SP6	Off
Routine		- SP3	Off
Slice group 1	4.4	SP1	Off
Slices	44	SP7	Off
Dist. factor Position	0 % Isocenter	SP5	Off
Orientation	Transversal		
Phase enc. dir.	R >> L	Positioning mode	FIX
Rotation	90.00 deg	MSMA	S-C-T
Phase oversampling	90.00 deg 0 %	Sagittal	R >> L
FoV read	190 mm	Coronal	A >> P
FoV read FoV phase	100.0 %	Transversal	F >> H
Slice thickness	3.0 mm	Coil Combine Mode	Sum of Squares
TR	2450 ms	Auto Coil Select	Off
TE	30 ms	Shim Mode	Standard
Averages	1	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	Prescan Normalize	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
Coll elements	HEA,HEI	Adjustment Tolerance	Auto
Contrast		_ Adjust volume	
MTC	Off	Position	Isocenter
Flip Angle	90 deg	Orientation	Transversal
Fat suppr.	Fat sat.	Rotation	90.00 deg
Averaging mode	Long term	A >> P	190 mm
Reconstruction	Magnitude	R >>> L	190 mm
Measurements	242	F >> H	132 mm
Delay in TR	0 ms	Physic	
Multiple series	Off	Physio 1st Signal/Mode	None
•	5 11	1	None
Resolution		BOLD	
Base resolution	64	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
Phase partial Fourier	Off	Starting ignore meas	0
Interpolation	Off	Ignore after transition	0
PAT mode	GRAPPA	Model transition states	On
Accel. factor PE	2	Temp. highpass filter	On
Ref. lines PE	24	Threshold	4.00
Matrix Coil Mode	Auto (Triple)	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
		Meas[2]	Baseline
Distortion Corr.	Off	Meas[3]	Baseline
Prescan Normalize	On	Meas[4]	Baseline
Raw filter	On O"	Meas[5]	Baseline
Elliptical filter	Off	Meas[6]	Baseline
Hamming	Off	Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	- Meas[9]	Baseline
Series	Interleaved	Meas[10]	Baseline
1 335		22/-	

Active
Active
Off
Off

Introduction Bandwidth	On 2368 Hz/Px
Free echo spacing Echo spacing	Off 0.55 ms
EPI factor RF pulse type Gradient mode	64 Normal Fast*

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Properties		Special sat.	None
Prio Recon	Off		
Before measurement		Set-n-Go Protocol	Off
After measurement		Table Position	Н
Load to viewer	On	Table Position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On	System	
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments		NEP	Off
Auto open inline display	Off	HEA	On
Start measurement without	On	NEA	Off
further preparation		SP4	Off
Wait for user to start	On	SP2	Off
Start measurements	single	SP8	Off
Douting		SP6	Off
Routine		SP3	Off
Slice group 1	4.4	SP1	Off
Slices	44	SP7	Off
Dist. factor	0 %	SP5	Off
Position	Isocenter		
Orientation	Transversal	Positioning mode	FIX
Phase enc. dir. Rotation	R >> L 90.00 deg	MSMA	S-C-T
Phase oversampling	90.00 deg 0 %	Sagittal	R >> L
FoV read		Coronal	A >> P
	190 mm	Transversal	F >> H
FoV phase	100.0 %	Coil Combine Mode	Sum of Squares
Slice thickness	3.0 mm	Auto Coil Select	Off
TR	2450 ms	Shim Mode	Standard
TE	30 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations Filter	I Dragge Normaliza	Assume Silicone	Off
	Prescan Normalize	? Ref. amplitude 1H	0.000 V
Coil elements	HEA;HEP	Adjustment Tolerance	Auto
Contrast		Adjust volume	riato
MTC	Off	Position	Isocenter
Flip Angle	90 deg	Orientation	Transversal
Fat suppr.	Fat sat.	Rotation	90.00 deg
Averaging mode	Long town	A >> P	190 mm
Averaging mode	Long term	R >> L	190 mm
Reconstruction	Magnitude	F >> H	132 mm
Measurements Delay in TR	242 0 ms	1	
Multiple series	Off	Physio	N
Multiple Selles	Oii	1st Signal/Mode	None
Resolution		BOLD	
Base resolution	64	GLM Statistics	Off
Phase resolution	100 %	Dynamic t-maps	Off
Phase partial Fourier	Off	Starting ignore meas	0
Interpolation	Off	Ignore after transition	0
PAT mode	GRAPPA	Model transition states	On
Accel, factor PE	2	Temp. highpass filter	On
Ref. lines PE	24	Threshold	4.00
Matrix Coil Mode	Auto (Triple)	Paradigm size	20
Reference scan mode	Separate	Meas[1]	Baseline
		Meas[2]	Baseline
Distortion Corr.	Off	Meas[3]	Baseline
Prescan Normalize	On	Meas[4]	Baseline
Raw filter	On	Meas[5]	Baseline
Elliptical filter	Off	Meas[6]	Baseline
Hamming	Off	Meas[7]	Baseline
Geometry		Meas[8]	Baseline
Multi-slice mode	Interleaved	Meas[9]	Baseline
MUNITORICE HIDGE			
Series	Interleaved	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

Introduction Bandwidth Free echo spacing Echo spacing	On 2368 Hz/Px Off 0.55 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

\\USER\Shana\FPET\fPET_rest\Resting 4_ep2d_task_bold TA: 10:02 PAT: 2 Voxel size: 3.0×3.0×3.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Prio Recon Before measurement After measurement After measurement After measurement Contract Co	Properties		Special sat.	None
Before measurement Load to viewer On Table Position H Table Position On On Table Position On On Table Position On On Table Position On On On On On On On		Off	_ Opecial Sat.	1 NOTIG
After measurement Load to viewer On Inline movie Off Table Position Orm Orm Table Position Orm Orm Table Position Orm O		OII		Off
Laad to viewer			Table Position	Н
Inline movie		On	Table Position	0 mm
Auto store images		_	Inline Composing	Off
Load to stamp segments				
Load images to graphic segments Auto open inline display				0"
Segments				
Auto open inline display Off HEA		OII		
Start measurement without On SP4 Off		0#		
Further preparation Wall for user to start Wall for user to start Wall for user to start Sart measurements Single SP2 Off SP2 Off SP3 Off SP4 Off SP5 Off SP6 Off SP6 Off SP7 Off Slices Group Slices Group Slices Group SP7 Off O		_		_
Wait for user to start		On		
Start measurements				_
Sice group 1				
Slice group 1	Start measurements	single		
Silce group 1 Silce group 1 Silce group 1 Silces	Routine			
Sicies				
Dist factor		44		_
Position			SP7	Off
Position Societies			SP5	Off
Phase enc. dir. R > L NSMA S - C - T				FIV
Rotation				
Phase oversampling 0 % Coronal A ≫ P FoV read 190 mm Transversal F ≫ H FoV phase 100.0 % Coil Combine Mode Sum of Squares Slice thickness 3.0 mm Auto Coil Select Off TE 30 ms Shim Mode Standard Averages 1 Concatenations Off Filter Prescan Normalize Assume Silicone Off Coll elements HEA;HEP Assume Silicone Off MTC Off PR. amplitude 1H 0.000 V Adjust with body coil Off Assume Silicone Off Contrast HEA;HEP Assume Silicone Off MTC Off Assume Silicone Auto Fals suppr. Fat stat. Rolation Position Isocenter Averaging mode Long term A ≫ P 190 mm PS N Reconstruction Magnitude F > H 132 mm Measurements 242 Phase partial Fourier Off <td></td> <td></td> <td></td> <td></td>				
FoV read			•	
FoV phase 100.0 % 3.0 mm TR 2450 ms TE 30 ms Averages 1 1 Concatenations 1 Confirm freq. adjustment Off Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Assume Silicone Off PRef. amplitude HEA;HEP Assume Silicone Off PRef. amplitude Position Isocenter Position Isocenter Position Isocenter Position Isocenter Position Position Position Position Precent Precen				
Slice thickness				
TR			Coil Combine Mode	Sum of Squares
TE			Auto Coil Select	Off
Averages			Oleine Manda	Ot
Concatenations		30 ms		
Filter		1		_
Coil elements HEA;HEP HEA;HEP Adjustment Tolerance Auto Auto Adjustment Tolerance Adjust volume Position Isocenter Position Position Isocenter Position Pos		1		
Adjustment Tolerance Auto	Filter	Prescan Normalize		
Contrast Adjustment Tolerance Adjust volume MTC Off Adjust volume Fals suppr. Fat sat. Position Isocenter Averaging mode Long term A >> P 190 mm Reconstruction Magnitude R >> P 190 mm Reconstruction Magnitude F >> H 132 mm Delay in TR 0 ms Physio Multiple series Off Test Signal/Mode None Resolution 8OLD Resolution BOLD Base resolution 64 Dynamic t-maps Off Phase partial Fourier Off Starting ignore meas 0 Interpolation Off Ignore after transition 0 PAT mode GRAPPA Temp. highpass filter On Accel. factor PE 2 Threshold 4.00 Ref. lines PE 24 Paradigm size 20 Matrix Coil Mode Auto (Triple) Meas[1] Baseline Reference scan mode Separate Meas[2] Baseline Distortion Corr. O	Coil elements	HEA;HEP		
MTC Off Position Isocenter Filip Angle 90 deg Position Isocenter Fat suppr. Fat sat. Rotation 90.00 deg Averaging mode Long term Rotation 90.00 deg A >> P 190 mm Poly mm Reconstruction Magnitude F >> H 190 mm Measurements 242 Physio Delay in TR 0 ms Physio Multiple series Off Tst Signal/Mode None Resolution BoLD BoLD Physio Resolution BoLD GLM Statistics Off Base resolution 100 % Polynamic t-maps Off Phase partial Fourier Off Starting ignore meas 0 Interpolation Off Starting ignore meas 0 Interpolation Off Model transition states On Reference scan mode Separate Meas[1] Baseline Meas[2] Baseline Meas[3] B	1	•		Auto
Flip Angle		0"		
Fat suppr. Fat sat. Rotation 90.00 deg Averaging mode Long term A >> P 190 mm Reconstruction Magnitude B >> L 190 mm Measurements 242 F >> H 132 mm Delay in TR 0 ms Physio 1st Signal/Mode None Multiple series Off BOLD BOLD BOLD Resolution 64 GLM Statistics Off Phase resolution 100 % Dynamic t-maps Off Phase partial Fourier Off Starting ignore meas 0 Interpolation Off Starting ignore meas 0 Interpolation Off Model transition states On PAT mode GRAPPA Accel. factor PE 2 Temp. highpass filter On Accel. factor PE 2 Temp. highpass filter On Threshold 4.00 Reference scan mode Separate Meas[1] Baseline Meas[1] Baseline Distortion Corr. Off			Position	Isocenter
Averaging mode Long term A > P 190 mm Reconstruction Magnitude R > L 190 mm Measurements 242 Physio Delay in TR 0 ms Physio Multiple series Off 1st Signal/Mode None Resolution BOLD BOLD Base resolution 100 % Bold Statistics Off Phase partial Fourier Off Dynamic t-maps Off Interpolation Off Starting ignore meas 0 Interpolation Off Jignore after transition 0 PAT mode GRAPPA Model transition states On Accel. factor PE 2 Term, highpass filter On Accel. factor PE 2 Threshold 4.00 Reference scan mode Separate Meas[1] Baseline Meas[2] Baseline Distortion Corr. Off Meas[3] Baseline Prescan Normalize On Meas[4] Baseline Raw filte	. •	•	Orientation	Transversal
Averaging mode Reconstruction Measurements Long term Magnitude A >> P R > L 190 mm Measurements Delay in TR Multiple series 0 ms Physio Resolution BolD Base resolution Phase partial Fourier Interpolation 64 Off GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Off PAT mode Accel. factor PE Ref. lines PE Ref. lines PE Reference scan mode 2 Separate Temp. highpass filter On Threshold On Threshold 4.00 Paradigm size Meas[1] Reseline Baseline Baseline Distortion Corr. Prescan Normalize Prescan Normalize On Raw filter On Meas[4] Meas[5] Baseline Baseline Baseline Geometry Meas[9] Meas[10] Baseline Baseline Multi-slice mode Interleaved Meas[10] Meas[10] Baseline Baseline	Fat suppr.	Fat sat.	Rotation	90.00 deg
Reconstruction Measurements Magnitude 242 H⇒ L 190 mm Delay in TR 0 ms Physio Multiple series Off 1st Signal/Mode None Resolution Base resolution 64 BOLD Phase resolution Phase partial Fourier Interpolation 100 % Dynamic t-maps Off Off PAT mode Interpolation PA Accel. factor PE 2 Ref. lines PE 24 Temp. highpass filter On Threshold 4.00 None Matrix Coil Mode Reference scan mode Reference scan mode Prescan Normalize On Prescan Normalize On Raw filter On Meas[2] Baseline Prescan Normalize On Meas[4] Baseline Prescan Normalize On Meas[4] Baseline Prescan filter Off Meas[6] Baseline Raw filter Off Meas[6] Baseline Baseline Prescan Raw filter Off Meas[7] Baseline Prescan Raw filter Off Meas[8] Baseline Prescan Raw filter Off Meas[9] Baseline Prescan Raseline Raseline Prescan Raseline Raseline Raseline Prescan Raseline Ra	Averaging mode	Long term	A >> P	
Neasurements			R >> L	
Physio Physio Section Physio Section Physio Starting ignore meas Physio Starting ignore meas Physio Physio Phase partial Fourier Off Starting ignore meas O Ignore after transition O PAT mode GRAPPA Accel. factor PE 2 Physio Paradigm size Physio Paradigm size Physio Paradigm size Physio				
Multiple series Off Tist Signal/Mode None			1	
Base resolution BOLD			•	
Base resolution Phase resolution Phase partial Fourier Interpolation Off PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Prescan Normalize Raw filter Prescan Normalize Filiptical filter Hamming Geometry Multi-slice mode GRAPE GLM Statistics Off Dynamic t-maps Off Starting ignore meas Ignore after transition Model transition states On Temp. highpass filter On Threshold A.00 Paradigm size Q0 Meas[1] Meas[2] Baseline Meas[3] Baseline Meas[6] Meas[6] Meas[7] Meas[1] Meas[1] Meas[1] Meas[1] Meas[1] Meas[1] Meas[2] Meas[3] Meas[6] Meas[1]	iviuitipie series	Uπ	1st Signal/Mode	None
Base resolution 64 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode GRAPPA Accel. factor PE 2 Ref. lines PE 24 Matrix Coil Mode Auto (Triple) Reference scan mode Separate Distortion Corr. Off Prescan Normalize On Raw filter On Separate Distortion Corr. Off Raw filter On Meas[3] Baseline Raw filter On Meas[4] Baseline Raw filter Off Meas[7] Baseline Elliptical filter Off Hamming Off GLM Statistics Off Dynamic t-maps Off Model transition on Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas[1] Baseline Meas[2] 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[9] Baseline Meas[10] Baseline Meas[10] Baseline Meas[10] Baseline Meas[10] Baseline	Resolution		BOI D	
Phase resolution 100 % 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 20 Meas[1] Baseline Prescan Normalize On Meas[4] Baseline Raw filter On Meas[6] Baseline Hamming Off Meas[7] Baseline Meas[9] Baseline Meas[10] Baseline M		64		Off
Phase partial Fourier Off Interpolation Off Starting ignore meas 0 Ignore after transition 0 Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas[1] Baseline Meas[2] Baseline Prescan Normalize On Meas[4] Baseline Raw filter On Meas[5] Baseline Baseline Itlight Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseli				
Interpolation Off PAT mode Accel. factor PE Ref. lines PE Reference scan mode Distortion Corr. Prescan Normalize Raw filter Raw filter Raw filter Raw filter Hamming Geometry Multi-slice mode Ignore after transition Model transition states On Temp. highpass filter On Threshold A.00 Paradigm size Meas[1] Meas[1] Meas[2] Baseline Meas[3] Meas[4] Meas[6] Meas[6] Meas[6] Meas[7] Meas[8] Meas[9] Meas[9] Meas[10] Baseline Meas[9] Meas[10] Model transition 0 Meas[1] Meas[1] Meas[1] Meas[1] Meas[1] Meas[1] Meas[9] Meas[9] Meas[9] Meas[10] Meas[10] Meas[1] Meas[10] Meas[10			· ·	
PAT mode GRAPPA Accel. factor PE 2 Ref. lines PE 24 Matrix Coil Mode Auto (Triple) Reference scan mode Separate Distortion Corr. Off Prescan Normalize On Raw filter On Raw filter On Elliptical filter Off Hamming Off Geometry 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[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[10] Baseline	•			
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Hamming Off Meas[7] Baseline Geometry Multi-slice mode Interleaved Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[10] Baseline	Raw filter	On	Meas[5]	Baseline
Hamming Off Meas[7] Baseline Geometry Multi-slice mode Interleaved Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[10] Baseline	Elliptical filter	Off		Baseline
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Multi-slice mode Interieaved Meas[10] Baseline		Table 1 and 1		
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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

Introduction	On
Bandwidth	2368 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

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Prio Recon Before measurement After meas	Properties		Special sat.	None
Before measurement		Off		
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Laad to viewer				
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Auto store images Con System	Inline movie		Inline Composing	Off
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Start measurement without further preparation Valid for user to start On SP4 Orf SP4 Orf Start measurements Single SP8 Orf SP9 Orf SP8 Orf SP9 Orf		Off		
further preparation Wait for user to start Wait for user to start Wait for user to start Start measurements single SPe Off SPP Off Off Off SPP Off Off SPP Off Off SPP Off SPP Off SPP Off SPP Off SPP Off Off SPP Off Off SPP Off Off SPP Off Off Off SPP Off Off SPP Off Off Off SPP Off Of				
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Rotation				
Phase oversampling				
FoV phase		•		
FoV phase 100.0 % 3.0 mm 3.0 m				
Silce thickness 3.0 mm				
TR				Sum of Squares
TE			Auto Coil Select	Off
Adjust with body coil			Shim Modo	Standard
Concatenations		30 ms		
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MTC Off Position Isocenter Flip Angle 90 deg Orientation Transversal Fat suppr. Fat sat. Rotation 90.00 deg Averaging mode Long term Rotation 90.00 deg A >> P 190 mm Position 190 mm Resolution Magnitude Resolution 190 mm Resolution TR 0 ms Physio Physio Resolution 64 BOLD None Resolution 64 GLM Statistics Off Phase resolution 100 % Dynamic 1-maps Off Phase partial Fourier Off Starting ignore meas 0 Interpolation Off Interpolation states On PAT mode GRAPPA Model transition states On Accel. factor PE 2 Temp. highpass filter On Acrel. factor Mode Auto (Triple) Paradigm size 20 Matrix Coil Mode Auto (Triple) Paradigm size 20 R	Coil elements	HEA;HEP		
MTC Off Position Isocenter Flip Angle 90 deg Orientation Transversal Fat suppr. Fat sat. Rotation 90.00 deg Averaging mode Long term Rotation 90.00 deg Averaging mode Long term Rotation 90.00 deg A >> P 190 mm Phomm Measurements 242 F> H 190 mm Delay in TR 0 ms Physio 132 mm Multiple series Off Physio Term H None Resolution BOLD BOLD Term P Off Dynamic 1-maps Off Off Off Dynamic 1-maps Off Off Off Dynamic 1-maps	Contrast			Auto
Filip Angle	MTC	Off		Isocenter
Fat suppr. Fat sat. Rotation 90.00 deg Averaging mode Long term A ≫ P 190 mm Reconstruction Magnitude R ≫ L 190 mm Measurements 242 F ≫ H 132 mm Delay in TR 0 ms Physio Multiple series Off BSCDD Resolution 64 BOLD Phase resolution 100 % Dynamic 1-maps Off Phase partial Fourier Off Starting ignore meas 0 Interpolation Off Model transition states On PAT mode GRAPPA Model transition states On Accel. factor PE 2 Temp. highpass filter On Accel. factor PE 2 Threshold 4.00 Reference scan mode Separate Meas[1] Baseline Distortion Corr. Off Meas[2] Baseline Prescan Normalize On Meas[3] Baseline Prescan Nighter On Meas[6] <t< td=""><td></td><td></td><td></td><td></td></t<>				
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Base resolution Phase resolution Phase partial Fourier Interpolation Off PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Paw filter Base resolution Off GRAPPA GRAPPA Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Con Raw filter Con Meas[4] Meas[5] Baseline Meas[6] Baseline Geometry Meas[9] Meas[10] Geometry GLM Statistics Off Dynamic t-maps Off Nedse of transition On Model transition states On Temp. highpass filter On Meas[1] Baseline Meas[1] Baseline Meas[2] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Meas[9] Meas[9] Meas[10] Baseline	Resolution		BOLD.	
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Multi-slice mode Interleaved Meas[10] Baseline Series Interleaved				
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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

Introduction Bandwidth Free echo spacing Echo spacing	On 2368 Hz/Px Off 0.55 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*