\\USER\CMI\\HBN\\V1\\Abdomen Localizer

TA: 0:31 PAT: Off Voxel size: 2.0×1.6×7.0 mm Rel. SNR: 1.00 SIEMENS: gre			
Properties		Phase resolution Phase partial Fourier	80 % Off
Prio Recon	Off	Interpolation	On
Before measurement			
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	On
Load to stamp segments	On O"	Mode	2D
Load images to graphic	Off	Unfiltered images	Off
segments	0"	Prescan Normalize	Off
Auto open inline display	Off	Normalize	Off
Start measurement without	Off	B1 filter	Off
further preparation	Off	Raw filter	Off
Wait for user to start Start measurements	_	Elliptical filter	On
Start measurements	single	Mode	Inplane
Routine		Coometry	·
Slice group 1		Geometry	Commential
Slices	3	Multi-slice mode	Sequential
Dist. factor	50 %	Series	Interleaved
Position	Isocenter	Saturation mode	Standard
Orientation	Transversal	Special sat.	None
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2		Customs	
Slices	3	System	0#
Dist. factor	50 %	Body	Off
Position	Isocenter	BO1	On
Orientation	Coronal	BO2 SP4	On On
Phase enc. dir.	R >> L	SP4 SP2	On On
Rotation	0.00 deg	SP8	Off
Slice group 3		SP6	Off
Slices	3	SP3	On
Dist. factor	50 %	SP1	Off
Position	L21.0 P0.0 H0.0	SP7	Off
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Positioning mode	ISO
Phase oversampling FoV read	13 % 400 mm	Table position	Н
FoV read FoV phase	100.0 %	Table position	0 mm
Slice thickness	7.0 mm	MSMA	S-C-T
TR	7.0 ms	Sagittal	R >> L
TE	2.60 ms	Coronal	A >> P
Averages	2	Transversal	H >> F
Concatenations	9	Save uncombined	Off
Filter	Distortion Corr.(2D), Elliptical	Coil Combine Mode	Adaptive Combine
7	filter	Auto Coil Select	Default
Coil elements	BO1,2;SP2-4	Shim mode	Tune up
I	- · , - , - · - ·	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume	
Fat suppr.	None	Position	Isocenter
Water suppr.	None	Orientation	Transversal
Averaging mode	Short term	Rotation	0.00 deg
Reconstruction	Magnitude	R >> L	350 mm
Measurements	1	A >> P	263 mm
Multiple series	Off	F >> H	350 mm
•		Physio	
Resolution	256	1st Signal/Mode	None
Base resolution	256	Segments	1
		1/+	-

1	
Tagging	None
Dark blood	Off
Resp. control	Off
Inline	
Subtract	Off
Liver registration	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
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	290 Hz/Px
Flow comp.	No
RF pulse type	Fast
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\CMI\\HBN\\V1\Abdomen Dixon Breathhold

TA: 0:11 PA	T: 2 Voxel size: 2.2×1.6×5.0	mm Rel. SNR: 1.00 SIE	EMENS: fl3d_vibe
Properties		Distortion Corr.	On
Prio Recon	Off	- Mode	2D
	Oli	Unfiltered images	Off
Before measurement		Unfiltered images	Off
After measurement		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	Elliptical filter	Off
Load images to graphic	Off	POCS	Off
segments		F003	Oli
Auto open inline display	On	Geometry	
Start measurement without	On	Multi-slice mode	Sequential
further preparation	0	Series	Ascending
Wait for user to start	Off		
		Special sat.	Parallel F/H
Start measurements	single	Gap	10.0 mm
Routine		Thickness	60 mm
Slab group 1		-	
Slabs	1	System	
Dist. factor	20 %	System	0#
Position		Body	Off
	Isocenter	BO1	On
Orientation	Transversal	BO2	On
Phase enc. dir.	A >> P	SP4	Off
Rotation	0.00 deg	SP2	On
Phase oversampling	0 %	SP8	Off
Slice oversampling	0.0 %	SP6	Off
Slices per slab	40	SP3	On
FoV read	400 mm	SP1	Off
FoV phase	78.1 %	SP7	Off
Slice thickness	5.00 mm		
		SP5	Off
TR	6.82 ms	Positioning mode	ISO
TE 1	2.38 ms	Table position	H
TE 2	4.76 ms	Table position	0 mm
Averages	1		
Concatenations	1	MSMA	S-C-T
Filter	Distortion Corr.(2D), Prescan	Sagittal	R >> L
	Normalize	Coronal	A >> P
Coil elements	BO1,2;SP2,3	Transversal	H >> F
	201,2,012,0	Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
Flip angle	10.0 deg	Auto Coil Select	Default
Fat suppr.	None		
Water suppr.	None	Shim mode	Standard
Dixon	Water + fat images	Adjust with body coil	Off
Save original images	On	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averaging mode	Short term	? Ref. amplitude 1H	0.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	7 10.10
Multiple series	Off	Position	Isocontor
Manapio sorios	J 11		Isocenter
Resolution		Orientation	Transversal
Base resolution	256	- Rotation	0.00 deg
Phase resolution	70 %	R >> L	400 mm
Slice resolution	60 %	A >> P	313 mm
Phase partial Fourier	Off	F >> H	200 mm
		Dhysis	
Slice partial Fourier	6/8	Physio	
Interpolation	Off	1st Signal/Mode	None
PAT mode	GRAPPA	Peen control	Breath-hold
		Resp. control	Breath-hold
Accel. factor PE	2	Inline	
Ref. lines PE	24	3D centric reordering	Off
Matrix Coil Mode	Auto (Triple)	Time to center	5.2 s
Reference scan mode	Integrated	Time to center	J.Z 3
Image Filter	Off	Subtract	Off
maye i mei	OII	Liver registration	Off
		3/+	

Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	480 Hz/Px
Bandwidth 2	480 Hz/Px
Readout mode	Monopolar
Optimization	In phase
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\\HBN\\V1\\Brain Localizer

TA: 0:26 PAT: Off Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00 SIEMENS: gre			
Properties		Phase resolution	75 %
Prio Recon	Off	 Phase partial Fourier 	Off
Before measurement	Oil	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off		
Auto store images	On	Image Filter	Off
Load to stamp segments	Off	Distortion Corr.	Off
Load images to graphic	Off	Unfiltered images	Off
segments		Prescan Normalize	On
Auto open inline display	Off	Normalize	Off
Start measurement without	On	B1 filter	Off
further preparation		Raw filter	Off
Wait for user to start	On	Elliptical filter	On
Start measurements	single	Mode	Inplane
Poutino		Geometry	
Routine		- Multi-slice mode	Sequential
Slice group 1 Slices	2	Series	Interleaved
Dist. factor	3 300 %	Coturation	Ctondord
Position	L0.0 A25.1 F0.7	Saturation mode	Standard
Orientation	Sagittal	Special sat.	None
Phase enc. dir.	A >> P	Time OT was do	
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	0.00 deg	System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Slice group 3	5.55 45g	SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume Position	Isocontor
Fat suppr.	None	Orientation	Isocenter Transversal
Water suppr.	None	Rotation	
		Rotation R >> L	0.00 deg 350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	1		330 IIIII
Multiple series	Off	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
ı			

Tagging Dark blood	None Off
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	On Off Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\HBN\V1\Motion Training			
TA: 1:35 PAT: Off		•	ER: cmrr_mbep2d_bold
Draportion		Body	On
Properties Properties	0#	HEP	Off
Prio Recon	Off	HEA	Off
Before measurement		SP4	Off
After measurement Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
ļ	og.o	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	9	Coil Combine Mode	Sum of Squares
Dist. factor	100 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.00 mm	Adjust volume	
TR	130 ms	Position	Isocenter
TE	7.94 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	BC	A >> P	192 mm
Contrast		F >> H	170 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	0"
	1 t	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	700	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On On
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold Paradigm size	4.00 20
Base resolution	64	•	20 Baseline
Phase resolution	100 %	Meas[1]	Baseline Baseline
Phase partial Fourier	5/8	Meas[2]	Baseline Baseline
Interpolation	Off	Meas[3]	Baseline Baseline
	None	Meas[4]	Baseline Baseline
PAT mode	None	Meas[5] Meas[6]	Baseline Baseline
Matrix Coil Mode	Auto (CP)	Meas[7]	Baseline Baseline
Distortion Corr.	Off		Baseline Baseline
Prescan Normalize	Off	Meas[8]	Baseline Baseline
Raw filter	On	Meas[9]	Baseline Baseline
Elliptical filter	Off	Meas[10] Meas[11]	Active
Hamming	Off		Active
		Meas[12] Meas[13]	Active
Geometry	lataria a cad		Active
Multi-slice mode	Interleaved	Meas[14]	
Series	Interleaved	Meas[15]	Active Active
Special sat.	None	Meas[16]	Active
		Meas[17] Meas[18]	Active
System		ινισαδί το]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Sequence

1	
Introduction	Off
Bandwidth	2442 Hz/Px
Flow comp.	No O''
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\\HBN\\V1\\Brain Localizer

TA: 0:26 PAT: Off Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00 SIEMENS: gre			
Properties		Phase resolution	75 %
Prio Recon	Off	 Phase partial Fourier 	Off
Before measurement	Oil	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off		
Auto store images	On	Image Filter	Off
Load to stamp segments	Off	Distortion Corr.	Off
Load images to graphic	Off	Unfiltered images	Off
segments		Prescan Normalize	On
Auto open inline display	Off	Normalize	Off
Start measurement without	On	B1 filter	Off
further preparation		Raw filter	Off
Wait for user to start	On	Elliptical filter	On
Start measurements	single	Mode	Inplane
Poutino		Geometry	
Routine		- Multi-slice mode	Sequential
Slice group 1 Slices	2	Series	Interleaved
Dist. factor	3 300 %	Coturation	Ctondord
Position	L0.0 A25.1 F0.7	Saturation mode	Standard
Orientation	Sagittal	Special sat.	None
Phase enc. dir.	A >> P	Time OT was do	
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	0.00 deg	System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Slice group 3	5.55 45g	SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume Position	Isocontor
Fat suppr.	None	Orientation	Isocenter Transversal
Water suppr.	None	Rotation	
		Rotation R >> L	0.00 deg 350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	1		330 IIIII
Multiple series	Off	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
ı			

Resp. control Off	Tagging Dark blood	None Off
Subtract Liver registration Std-Dev-Sag Off Std-Dev-Cor Off Std-Dev-Tra Off Std-Dev-Time Off MIP-Sag Off MIP-Sag Off MIP-Tra Off MIP-Tra Off Save original images On Wash - In Wash - Out TTP Off PEI MIP - time Off Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Sequence RF pulse type Gradient mode Excitation Off Std-Dev-Sag Off Off Off Off MIP-Sag Off Off Off Off Off Off Off Asymmatric Sequence Fast Gradient mode Normal Excitation Off Sid-Dev-Tra Off Off Off Off Asymmatric Off Asymmetric Off Fast Gradient mode Normal Slice-sel.	Resp. control	Off
Liver registration Off Std-Dev-Sag Off Std-Dev-Cor Off Std-Dev-Tra Off Std-Dev-Time Off MIP-Sag Off MIP-Sag Off MIP-Tra Off MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.	Inline	
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-Tra Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
Std-Dev-Cor Std-Dev-Tra Off Std-Dev-Time Off MIP-Sag Off MIP-Cor MIP-Tra Off MIP-Time Off Save original images On Wash - In Wash - Out TTP Off PEI Off MIP - time Off Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Plow comp. RF pulse type Gradient mode Excitation Off Soff Off Std-Dev-Time Off Off Off Off MIP - Off Off Off Allowed Off Allowed Contrasts Off Asymmetric echo Normal Excitation Slice-sel.		
Std-Dev-Tra Off Std-Dev-Time Off MIP-Sag Off MIP-Cor Off MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Excitation Slice-sel.		
Std-Dev-Time Off MIP-Sag Off MIP-Cor Off MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Off MIP - Soft MIP - Tra MIP - T		
MIP-Sag Off MIP-Cor Off MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Off		
MIP-Cor Off MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		* ··
MIP-Tra Off MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Off	3	
MIP-Time Off Save original images On Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
Save original images On Wash - In Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Bandwidth Sequence RF pulse type Gradient mode Excitation On Dimension Substitute On Allowed Contrasts Description No RF pulse type Fast Gradient mode Excitation Slice-sel.	******	•
Wash - In Off Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		•
Wash - Out Off TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
TTP Off PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		_
PEI Off MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
MIP - time Off Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		* ··
Sequence Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.	·	_
Introduction On Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.	MIP - time	Off
Dimension 2D Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.	Sequence	
Phase stabilisation Off Asymmetric echo Allowed Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.	Introduction	
Asymmetric echo Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Gradient mode Excitation Slice-sel.		
Contrasts 1 Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		•
Bandwidth 290 Hz/Px Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
Flow comp. No RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		•
RF pulse type Fast Gradient mode Normal Excitation Slice-sel.		
Gradient mode Normal Excitation Slice-sel.	Flow comp.	No
Gradient mode Normal Excitation Slice-sel.	RF pulse type	Fast
		Normal
RF spoiling On	Excitation	Slice-sel.
1 3	RF spoiling	On

\\USER\CMI\\HBN\\V1\\Resting State 2.5mm

TA: 10:18 PAT: Of	f Voxel size: 2.5×2.5×2.5 n	nm Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Droportion		Body	Off
Properties	0"	_ HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	_	SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	- ing. c	Sagittal	R >> L
Routine		- Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %		•
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
	_		
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	- Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
·		Threshold	4.00
Resolution		- Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	= =	
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
		Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On O"	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Hamming	Oli	1 101643 121	
•	Oli		Active
Geometry		Meas[13]	Active
Geometry Multi-slice mode	Interleaved	Meas[13] - Meas[14]	Active Active
Geometry		Meas[13] - Meas[14] Meas[15]	Active Active Active
Geometry Multi-slice mode	Interleaved	Meas[13] - Meas[14] Meas[15] Meas[16]	Active Active Active Active
Geometry Multi-slice mode Series	Interleaved Interleaved	Meas[13] - Meas[14] Meas[15]	Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\HBN\V1\Field Map

roportios		System	
roperties Prio Recon	Off	System	Off
Before measurement	Oii	Body HEP	On
			On
After measurement	•	HEA	
Load to viewer	On O"	SP4	Off
Inline movie	Off	SP2	Off
Auto store images	On	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments		SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation			
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
	5g.5	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	42	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Auto Con Gelect	
Phase oversampling	0.00 deg 0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
	_	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	3.0 mm	? Ref. amplitude 1H	0.000 V
TR	492 ms	Adjustment Tolerance	Auto
TE 1	3.28 ms	Adjust volume	/ tato
TE 2	8.04 ms	Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1		
Filter	None	Rotation	0.00 deg
Coil elements	HEA;HEP	R >> L	192 mm
	•	A >> P	192 mm
Contrast		F >> H	126 mm
MTC	Off	Sequence	
Flip angle	90 deg	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Short term		Allowed
Averaging mode		Asymmetric echo	
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
	Off	IXI Spoiling	Oil
Phase partial Fourier			
Interpolation	Off		
Matrix Coil Mode	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
Seometry			
Multi-slice mode	Interleaved	_	
Series	Interleaved		
001100			

Special sat.

None

\\USER\CMI\\HBN\\V1\\T1W MEMPRAGE - SAG

TA: 6:32 PAT: 2		mm Rel. SNR: 1.00 USER	t: tfl_mgh_multiecho
Proportion		Image Filter	Off
Properties Prio Recon	Off	Distortion Corr.	Off
	Off	Unfiltered images	Off
Before measurement		Prescan Normalize	On
After measurement	0	Normalize	Off
Load to viewer	On O"	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	On	0	
Load images to graphic	On	Geometry	0: 1 1 1
segments	•	Multi-slice mode	Single shot
Auto open inline display	Off	Series	Interleaved
Start measurement without	On	System	
further preparation	•	Body	Off
Wait for user to start	Off	HEP	On
Start measurements	single	HEA	On
Routine		SP4	Off
Slab group 1		_ SP2	Off
Slabs	1	SP8	Off
Dist. factor	50 %	SP6	Off
Position	Isocenter	SP3	Off
Orientation		SP3	Off
Phase enc. dir.	Sagittal A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0 %	Positioning mode	REF
Slice oversampling	0.0 %	Table position	Н
Slices per slab	176	Table position	0 mm
FoV read	256 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	1.00 mm	Coronal	A >> P
TR	2730 ms	Transversal	F >> H
TE 1	1.64 ms	Save uncombined	Off
TE 2	3.5 ms	Coil Combine Mode	Adaptive Combine
TE 3	5.36 ms	Auto Coil Select	Default
TE 4	7.22 ms		
Averages	1	Shim mode	Standard
Concatenations	1	Adjust with body coil	Off
Filter	Prescan Normalize	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
Magn. preparation	Non-sel. IR	— Adjustment Tolerance	Auto
TI	1000 ms	Adjust volume	
Flip angle	7.0 deg	Position	Isocenter
	None	Orientation	Sagittal
Fat suppr. Water suppr.	None	Rotation	0.00 deg
vvalei suppi.		F >> H	256 mm
Averaging mode	Long term	A >> P	256 mm
Reconstruction	Magnitude	R >> L	176 mm
Measurements	1	ı	
Multiple series	Each measurement	Physio	
		1st Signal/Mode	None
Resolution	050	— Dark blood	Off
Base resolution	256	l	
Phase resolution	100 %	Inline	
Slice resolution	100 %	Subtract	Off
Phase partial Fourier	Off	Std-Dev-Sag	Off
Slice partial Fourier	Off	Std-Dev-Cor	Off
Interpolation	Off	Std-Dev-Tra	Off
PAT mode	GRAPPA	Std-Dev-Time	Off
Accel. factor PE	2	MIP-Sag	Off
Ref. lines PE		MIP-Cor	Off
	32 Auto (Triplo)	MIP-Tra	Off
Matrix Coil Mode	Auto (Triple)	MIP-Time	Off
Reference scan mode	Integrated	Save original images	On
		1	

Sequence

•	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	4
Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Echo spacing	9.6 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Readout polarity	Positive
Readout trajectory	Bipolar
Add, scale factor	4.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS
1 5 9 9	

\\USER\CMI\HBN\V1\DWI B=0 PA - AX TA: 0:16 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff Special sat. None Properties System Prio Recon Off Body On Before measurement HEP After measurement Off Off Load to viewer On **HEA** Inline movie Off SP4 Off Auto store images On SP2 Off SP8 Load to stamp segments Off Off Load images to graphic Off SP6 Off segments SP3 Off Off Auto open inline display SP1 Off Start measurement without SP7 Off On further preparation SP₅ Off Off Wait for user to start Positioning mode **REF** Start measurements single Table position Routine Table position 0 mm MSMA S-C-T Slice group 1 Slices 72 Sagittal R >> L Dist. factor 0 % Coronal A >> P Position Isocenter Transversal F >> H Orientation Transversal Coil Combine Mode Sum of Squares Phase enc. dir. P >> A Auto Coil Select Default 180.00 deg Rotation Shim mode Standard Phase oversampling 0 % Adjust with body coil Off FoV read 192 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 V TR 3110 ms Adjustment Tolerance Auto ΤE 76.2 ms Adjust volume Multi-band accel. factor 3 Position Isocenter Filter None Orientation Transversal Coil elements BC Rotation 180.00 deg Contrast R >> L 192 mm MTC Off A >> P 192 mm Magn. preparation None F >> H 144 mm Flip angle 90 deg Physio Refocus flip angle 180 deg 1st Signal/Mode None Fat suppr. Fat sat. Grad. rev. fat suppr. Enabled Diff Diffusion mode MDDW Averaging mode Long term Diff. weightings Reconstruction Magnitude b-value 0 s/mm² Measurements Diff. weighted images On Delay in TR 0 ms Trace weighted images Off Multiple series Off Average ADC maps Off Individual ADC maps Resolution Off 96 Base resolution FA maps Off Mosaic Phase resolution 100 % Off Tensor Phase partial Fourier 6/8 Off Interpolation Off Noise level 40 Diff. directions 64 PAT mode None Auto (CP) Matrix Coil Mode Sequence Introduction Off Distortion Corr. Off 1628 Hz/Px Bandwidth Off Prescan Normalize Free echo spacing Off Raw filter On Echo spacing 0.72 ms Elliptical filter Off **EPI** factor 96 Hamming Off Gradient mode Fast Geometry RF spoiling Multi-slice mode Interleaved

Excite pulse duration

Refocus pulse duration

2560 us

5120 us

Interleaved

Series

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramb	ole Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band rec	on. Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\\HBN\\V1\DKI 64 Directions AP 3 WEIGHTS- AX TA: 9:59 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff Special sat. None Properties Prio Recon Off System Body On Before measurement HEP After measurement Off On Off Load to viewer **HEA** Inline movie Off SP4 Off Auto store images On SP2 Off SP8 Load to stamp segments Off Off Load images to graphic Off SP6 Off segments SP3 Off Off Auto open inline display SP1 Off Start measurement without SP7 On Off further preparation SP₅ Off Wait for user to start Off Positioning mode FIX Start measurements single Table position Routine Table position 0 mm MSMA S-C-T Slice group 1 Sagittal Slices 72 R >> L Dist. factor 0 % Coronal A >> P Position Isocenter Transversal F >> H Orientation Transversal Coil Combine Mode Sum of Squares Phase enc. dir. A >> P Auto Coil Select Default 0.00 deg Rotation Shim mode Standard Phase oversampling 0 % Adjust with body coil Off FoV read 192 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 V TR 4500 ms Adjustment Tolerance Auto ΤE 93.8 ms Adjust volume Multi-band accel. factor 3 Position Isocenter Filter None Orientation Transversal Coil elements BC Rotation 0.00 deg Contrast R >> L 192 mm MTC Off A >> P 192 mm Magn. preparation None F >> H 144 mm Flip angle 90 deg Physio Refocus flip angle 180 deg 1st Signal/Mode None Fat suppr. Fat sat. Grad. rev. fat suppr. Enabled Diff Diffusion mode **MDDW** Averaging mode Long term Diff. weightings 3 Reconstruction Magnitude b-value 1 0 s/mm² Measurements b-value 2 1000 s/mm² Delay in TR 0 ms b-value 3 2000 s/mm² Multiple series Off Diff. weighted images On Resolution Trace weighted images On 96 Base resolution Average ADC maps Off 100 % Individual ADC maps Phase resolution Off FA maps Phase partial Fourier 6/8 Off Interpolation Off Mosaic On Tensor Off PAT mode None Noise level 40 Auto (CP) Matrix Coil Mode Diff. directions 64 Distortion Corr. Off Sequence Off Prescan Normalize Introduction Off Raw filter On 1628 Hz/Px Bandwidth Elliptical filter Off Off Free echo spacing Hamming Off Echo spacing 0.72 ms

EPI factor

RF spoiling

Gradient mode

96

Fast

Off

Geometry

Series

Multi-slice mode

Interleaved

Interleaved

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off

Online

Online multi-band recon.

	IDANAA DA	// D O D A	A \/
\\USFR\CMI\\	HBN\V1\DV\	/I B=() PA-	AX

TA: 0:16	PAT: Off	Voxel size: 2.0×2.0×2.0 mm	Rel. SNR: 1.00	USER: cmrr mbep2d diff

.		Special sat.	None
Properties	0"	1 .	
Prio Recon	Off	System	0.5
Before measurement After measurement		Body HEP	On Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE Multi-band accel, factor	76.2 ms 3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Con elements	ВС	Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg Fat sat.	1st Signal/Mode	None
Fat suppr.	Fat sat. Enabled	Diff	
Grad. rev. fat suppr.		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	MDDW 1
Reconstruction	Magnitude	b-value	0 s/mm²
Measurements	1	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
Matrix Coil Mode	Auto (CP)	Sequence	
		Introduction	Off
Distortion Corr.	Off	Bandwidth	1628 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On O#	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor Gradient mode	96 Fact
Geometry			Fast Off
Multi-slice mode	Interleaved		OII
Series	Interleaved	Excite pulse duration	2560 us
		Refocus pulse duration	5120 us
		20/+	

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\\HBN\V1\DWI B=0 AP- AX TA: 0:16 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	-	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
	Off	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Oli	SP3	Off
segments	0#		
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	70		R >> L
Dist. factor	72 0 %	Sagittal Coronal	K >> L A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	192 mm		Off
FoV phase	100.0 %	Confirm freq. adjustment	
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3110 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel, factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Coll elements	ВС	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	I	
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term		1
Reconstruction	Magnitude	Diff. weightings	-
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On O"
Multiple series	Off	Trace weighted images	Off
1	=· - ·	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None	l	
Matrix Coil Mode	Auto (CP)	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
		Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	96
Geometry		Gradient mode	Fast
Multi-slice mode	Interleaved	RF spoiling	Off
Series	Interleaved	Excite pulse duration	2560 us
		Refocus pulse duration	5120 us
•		22/±	3120 u3

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

	\\USER\CMI\HBN\\	/1\Despot 1 -SAG	
TA: 5:00	Voxel size: 1.8×1.7×1.8 mm	·	despot1_baby
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	On
Before measurement	.	Intensity	Weak
After measurement		Slope	25
Load to viewer	On	Elliptical filter	Off
Inline movie	Off	Geometry	
Auto store images	On	Multi-slice mode	Sequential
Load to stamp segments	On	Series	Ascending
Load images to graphic	Off	0 1	3
segments		System	
Auto open inline display	Off	Body	On O"
Start measurement without	On	HE2	Off
further preparation		HE4	Off
Wait for user to start	Off	HE1	Off
Start measurements	single	HE3	Off
Douting		Positioning mode	REF
Routine		Table position	Н
Slab group 1	4	Table position	0 mm
Slabs	1	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %		
Slices per slab	96	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	1.80 mm	Assume Silicone	Off
TR	5.2 ms	? Ref. amplitude 1H	0.000 V
TE	2.4 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		R >> L	350 mm
Flip angle	16 deg	A >> P	263 mm
		F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	8	1	110110
Pause after meas. 1	0.0 s	Inline	
Pause after meas. 2	0.0 s	Subtract	Off
Pause after meas. 3	0.0 s	Std-Dev-Sag	Off
Pause after meas. 4	0.0 s	Std-Dev-Cor	Off
Pause after meas. 5	0.0 s	Std-Dev-Tra	Off
Pause after meas. 6	0.0 s	Std-Dev-Time	Off
Pause after meas. 7	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
Resolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution	90 %	Sequence	
Phase partial Fourier	6/8	Introduction	Off
Slice partial Fourier	7/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
		Contrasts	1
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px
Image Filter	Off		
Distortion Corr.	Off	RF pulse type	Low SAR
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
HOITIGIIZE	OII		

IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	37.8 deg
Gradient Spoiler Factor	0.3
Baby Mode	Off

\\USER\CMI\\HBN\\V1\\IR SPGR -SAG

TA: 0:53	Voxel size: 1.7×1.7×3.6 mm	Rel. SNR: 1.00 USER:	despot1_baby
Properties		Series	Ascending
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HE2	Off
Load to viewer	On	HE4	Off
Inline movie	Off	HE1	Off
Auto store images	On	HE3	Off
Load to stamp segments	On		
Load images to graphic	Off	Positioning mode	FIX
segments	On	Table position	Н
Auto open inline display	Off	Table position	0 mm
Start measurement without	Off	MSMA	S - C - T
	Oii	Sagittal	R >> L
further preparation	O#	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
Routine		Coil Combine Mode	Adaptive Combine
Slab group 1		Auto Coil Select	Default
Slabs	1		
Dist. factor	20 %	Shim mode	Tune up
Position	Isocenter	Adjust with body coil	Off
		Confirm freq. adjustment	Off
Orientation	Sagittal	Assume Silicone	Off
Phase enc. dir.	A >> P	? Ref. amplitude 1H	0.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	7 10.10
Slice oversampling	0.0 %	Position	Isocenter
Slices per slab	48	Orientation	Transversal
FoV read	220 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	350 mm
Slice thickness	3.60 mm	A >> P	263 mm
TR	5.3 ms	F >> H	350 mm
TE	2.4 ms		330 11111
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	Raw filter		
Coil elements	BC	Inline	
0		Subtract	Off
Contrast		Std-Dev-Sag	Off
Flip angle	5 deg	Std-Dev-Cor	Off
Averaging mode	Short term	Std-Dev-Tra	Off
Reconstruction	Magnitude	Std-Dev-Time	Off
Measurements	1	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
wulliple selles	Oli	MIP-Tra	Off
Resolution		MIP-Time	Off
Base resolution	128	Save original images	On
Phase resolution	100 %		
Slice resolution	100 %	Sequence	
Phase partial Fourier	Off	Introduction	Off
Slice partial Fourier	6/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
	OII	Contrasts	1
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px
Image Filter	Off	RF pulse type	Low SAR
Distortion Corr.	Off	Gradient mode	Fast
Prescan Normalize	Off	RF spoiling	On
Normalize	Off		
B1 filter	Off	IR Mode	On
Raw filter	On	Inversion time	400 ms
Intensity	Weak	RF pulse duration	0.8 ms
Slope	25	RF pulse TBW	3.0
		RF Spoil Increment	37.8 deg
Elliptical filter	Off	Gradient Spoiler Factor	0.3
Geometry		Baby Mode	Off
Multi-slice mode	Sequential	1	

Multi-slice mode

Sequential

\\USER\CMI\HBN\V1\Despot 2 -SAG

TA: 8:38	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER: c	despot2_baby2
Properties		Slice partial Fourier	7/8
Prio Recon	Off	Interpolation	Off
Before measurement	.	Matrix Coil Mode	Auto (CP)
After measurement			
Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	On	Normalize	Off
Load images to graphic	Off	B1 filter	Off
segments		Raw filter	On
Auto open inline display	Off	Intensity	Medium
Start measurement without	On	Slope	48
further preparation	.	Elliptical filter	Off
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
	S.i.ig.S	Series	Ascending
outine		Selles	Ascending
Slab group 1		System	
Slabs	1	Body	On
Dist. factor	20 %	HE2	Off
Position	Isocenter	HE4	Off
Orientation	Sagittal	HE1	Off
Phase enc. dir.	A >> P	HE3	Off
Rotation	0.00 deg	D '''	
Phase oversampling	0 %	Positioning mode	FIX
Slice oversampling	0.0 %	Table position	H
Slices per slab	96	Table position	0 mm
FoV read	220 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	1.80 mm	Coronal	A >> P
TR	5.40 ms	Transversal	F >> H
TE	2.700 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Adaptive Combine
Concatenations	1	Auto Coil Select	Default
Filter	Raw filter	Shim mode	Tune up
Coil elements	BC	Adjust with body coil	Off
		Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
Flip angle	60 deg	? Ref. amplitude 1H	0.000 V
Averaging mode	Short term		
Reconstruction	Magnitude	Adjustment Tolerance Adjust volume	Auto
Measurements	16	Position	laggenter
Pause after meas. 1	0.0 s	Orientation	Isocenter Transversal
Pause after meas. 2	0.0 s	Rotation	
Pause after meas. 3	0.0 s	Rotation R >> L	0.00 deg
Pause after meas. 4	0.0 s	R >> L A >> P	350 mm 263 mm
Pause after meas. 4 Pause after meas. 5	0.0 s 0.0 s		
Pause after meas. 5 Pause after meas. 6		F >> H	350 mm
Pause after meas. 6	0.0 s 0.0 s	Physio	
Pause after meas. 7 Pause after meas. 8	0.0 s 0.0 s	1st Signal/Mode	None
Pause after meas. 8 Pause after meas. 9	0.0 s		
		Inline	
Pause after meas. 10	0.0 s	Subtract	Off
Pause after meas. 11	0.0 s	Std-Dev-Sag	Off
Pause after meas. 12	0.0 s	Std-Dev-Cor	Off
Pause after meas. 13	0.0 s	Std-Dev-Tra	Off
Pause after meas. 14	0.0 s	Std-Dev-Time	Off
Pause after meas. 15	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
tesolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
i iidae ieadiulidii			
Slice resolution	un %		
Slice resolution Phase partial Fourier	90 % 5/8	Sequence Introduction	Off

Dimension Elliptical scanning Contrasts Bandwidth	3D Off 1 350 Hz/Px
RF pulse type	Low SAR
Gradient mode	Fast
RF spoiling	Off
IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off

\\USER\CMI\\HBN\\V1\\MT OFF -SAG

Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	Off On Off On On Off On Off Off Off	Normalize B1 filter Raw filter Elliptical filter Geometry Multi-slice mode Series Saturation mode Special sat. Tim CT mode	Off Off Off Off Interleaved Interleaved Standard None
Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	On Off On On Off Off	Raw filter Elliptical filter Geometry Multi-slice mode Series Saturation mode Special sat.	Off Off Interleaved Interleaved Standard
After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	Off On On Off Off	Geometry Multi-slice mode Series Saturation mode Special sat.	Interleaved Interleaved Standard
Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	Off On On Off Off	Multi-slice mode Series Saturation mode Special sat.	Interleaved Standard
Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start	Off On On Off Off	Multi-slice mode Series Saturation mode Special sat.	Interleaved Standard
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	On On Off Off On	Series Saturation mode Special sat.	Interleaved Standard
Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	On Off Off On	Saturation mode Special sat.	Standard
Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	Off Off On	Special sat.	
segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	Off On		None
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements	On		
Start measurement without further preparation Wait for user to start Start measurements		i iiii ti mode	
Wait for user to start Start measurements		1 01 111000	Off
Start measurements		System	
	Off	Body	Off
outine	single	HEP	On
		HEA	On
Slab group 1		SP4	Off
Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation	Sagittal	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	176	Table position	Н
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	T Name	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP	Shim mode	Tune up
ontrast		Adjust with body coil	Off
MTC	Off	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	
Averaging mode	Short term	Position	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
·		A >> P	263 mm
esolution	256	F >> H	350 mm
Base resolution	256 100 %	Physio	
Phase resolution		1st Signal/Mode	None
Slice resolution Phase partial Fourier	100 % 6/8	Segments	1
Slice partial Fourier	6/8		Nama
Interpolation	Off	Tagging	None O#
		Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	1	
Ref. lines PE	32	Inline	0#
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
Image Filter	Off	Std-Dev-Sag	Off
Distortion Corr.	Off	Std-Dev-Cor	Off
Prescan Normalize	Off	Std-Dev-Tra Std-Dev-Time	Off Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\HBN\V1\MT ON -SAG

TA: 6:41	PAT: 2 Voxel size: 1.0×1.0×	x1.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Normalize	Off
Prio Recon	Off	B1 filter	Off
Before measurement	-	Raw filter	Off
After measurement		Elliptical filter	Off
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On		
Load images to graphic	Off	Saturation mode	Standard
	Oli	Special sat.	None
segments	Off		
Auto open inline display		Tim CT mode	Off
Start measurement without	On	ļ	
further preparation	0#	System	
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
Routine		HEA	On
Slab group 1		─ SP4	Off
Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation	Sagittal	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
	0.00 deg 0 %	SP5	Off
Phase oversampling			
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	176	Table position	Н
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP		<u>-</u>
Contrast		Shim mode	Tune up
	02	Adjust with body coil	Off
MTC	On	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	
Averaging mode	Short term	Position	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
•	Laon moasarement	A >> P	263 mm
Resolution		F >> H	350 mm
Base resolution	256	Dhysis	
Phase resolution	100 %	Physio	N.
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	6/8	Segments	1
Slice partial Fourier	6/8	Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	Inlina	
Ref. lines PE	32	Inline	0 "
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode		Liver registration	Off
rtororioo courrinouo	Integrated		
		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\HBN\V1\T2 FLAIR

TA: 2:44 PAT: 2 Voxel size: 0.9×0.9×5.0 mm Rel. SNR: 1.00 SIEMENS: tse			
Droportion		Distortion Corr.	Off
Properties		— Prescan Normalize	Off
Prio Recon	Off	Normalize	On
Before measurement		Intensity	Medium
After measurement	_	Cut off	20
Load to viewer	On	Width	4
Inline movie	Off	Unfiltered images	Off
Auto store images	On	B1 filter	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off		On
segments		Elliptical filter	_
Auto open inline display	Off	Mode	Inplane
Start measurement without	On	Geometry	
further preparation	311	Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Interleaved
		36165	
Start measurements	single	Special sat.	None
Routine			
Slice group 1		Tim CT mode	Off
Slices	24	Systom	
Dist. factor	30 %	System	Off
Position	Isocenter	Body	Off
Orientation	Transversal	HEP	On
Phase enc. dir.	R >> L	HEA	On
Rotation	90.00 deg	Positioning mode	FIX
Phase oversampling	0 %		H
FoV read	230 mm	Table position	
FoV phase	87.5 %	Table position	0 mm
Slice thickness	5.0 mm	MSMA	S-C-T
	9000 ms	Sagittal	R >> L
TR		Coronal	A >> P
ŢE	89.0 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	2	Coil Combine Mode	Adaptive Combine
Filter	Normalize, Elliptical filter	Auto Coil Select	Default
Coil elements	HEA;HEP	Ohim made	01
Contrast		Shim mode	Standard
TD	0.0 ms	Adjust with body coil	Off
		Confirm freq. adjustment	Off
MTC	Off	Assume Silicone	Off
Magn. preparation	Slice-sel. IR	? Ref. amplitude 1H	0.000 V
TI	2500 ms	Adjustment Tolerance	Auto
Freeze suppressed tissue	On	Adjust volume	
Flip angle	150 deg	Position	Isocenter
Fat suppr.	Fat sat.	Orientation	Transversal
Fat sat. mode	Strong	Rotation	90.00 deg
Water suppr.	None	A >> P	230 mm
Restore magn.	Off	R >> L	202 mm
		F >> H	155 mm
Averaging mode	Short term	Г >> П	155 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
Resolution			
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	On	•	Off
		Std-Dev-Cor	_
PAT mode	GRAPPA	Std-Dev-Tra	Off
		Std-Dev-Time	Off
Accel. factor PE	2		~ "
	2 31	MIP-Sag	Off
Accel. factor PE Ref. lines PE	31	MIP-Sag MIP-Cor	Off Off
Accel. factor PE Ref. lines PE Matrix Coil Mode	31 Auto (Triple)	MIP-Sag	
Accel. factor PE Ref. lines PE	31	MIP-Sag MIP-Cor	Off

Sequence

•	
Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	On
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	9.92 ms
Define	Turbo factor
Turbo factor	16
Echo trains per slice	8
RF pulse type	Normal
Gradient mode	Normal
I	

\\USER\CMI\SerialScanning\Scan1\Brain Localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:26

PAT: Off

Resolution		1st Signal/Mode	None
Multiple series	Off	Physio	N.
Measurements Multiple series	1 Off	ļ.	500 mm
Reconstruction	Magnitude	F >> H	350 mm
Averaging mode	Short term	R >> L A >> P	350 mm 263 mm
		Rotation	0.00 deg
Water suppr.	None	Orientation	Transversal
Flip angle Fat suppr.	20 deg None	Position	Isocenter
Magn. preparation	None	Adjust volume	
MTC	Off	Adjustment Tolerance	Auto
TD	0 ms	? Ref. amplitude 1H	0.000 V
ontrast		Assume Silicone	Off
	,	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Adjust with body coil	Off
. iitoi	filter	Shim mode	Tune up
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Default
Averages Concatenations	9	Coil Combine Mode	Adaptive Combine
	2.95 ms 2	Save uncombined	Off
TE	2.95 ms	Transversal	F >> H
Slice thickness TR	8.0 mm 7.0 ms	Coronal	A >> P
FoV phase	100.0 %	Sagittal	R >> L
FoV read	260 mm	MSMA	S - C - T
Phase oversampling	0 %	Table position	0 mm
Rotation	0.00 deg	Table position	Н
Phase enc. dir.	R >> L	Positioning mode	REF
Orientation	Coronal	SP5	UII
Position	L0.0 A25.1 F0.7	SP7	Off Off
Dist. factor	300 %	SP1	Off
Slices	3	SP3	Off Off
Slice group 3		SP6	Off Off
Rotation	0.00 deg	SP8	Off
Phase enc. dir.	A >> P	SP2	Off
Orientation	Transversal	SP4	Off
Position	L0.0 A25.1 F0.7	HEA	On Off
Dist. factor	300 %	HEP	On
Slices	3	Body	Off
Slice group 2		System	~"
Rotation	0.00 deg		-
Phase enc. dir.	A >> P	Tim CT mode	Off
Orientation	Sagittal		
Position	L0.0 A25.1 F0.7	Special sat.	None
Dist. factor	300 %	Saturation mode	Standard
Slices	3	Series	Interleaved
Slice group 1		- Multi-slice mode	Sequential
outine		Geometry	
Start measurements	single	ļ	прино
Wait for user to start	On	Mode	Inplane
further preparation		Raw filter Elliptical filter	Off On
Start measurement without	On	B1 filter	Off
Auto open inline display	Off	Normalize	Off
segments		Prescan Normalize	On Off
Load images to graphic	Off	Unfiltered images	Off
Load to stamp segments	Off	Distortion Corr.	Off
Auto store images	On	Image Filter	Off
Inline movie	Off	······································	
After measurement Load to viewer	On	Matrix Coil Mode	Auto (CP)
Before measurement		PAT mode	None
	Oli	Interpolation	On
Prio Recon	Off	 Phase partial Fourier 	Off

Tagging Dark blood	None Off			
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	On Off Off Off Off Off Off			
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No			
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On			

\\USER\CMI\SerialScanning\Scan1\Motion Training

Properties Prio Recon Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Sice group 1 Slices Dist. factor Position Orientation Transversa Phase enc. dir. Rotation Off Sfractor Off Start measurements Single	Body HEP HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	On Off Off Off Off Off Off Off Off Off O
Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Con Load to stamp segments Coff Load images to graphic Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Slice group 1 Slices Dist. factor Position Orientation Transversa Phase enc. dir. A >> P Rotation Off Before Con On On On Off Start measurement Off Start measurements Single Single Off Start measurements Single On On Off Start measurements Single Off Start measurements Single Off Start measurements Single On On Off Start measurements Single On On Off Start measurements Single Off Start measurements Single On On Off Start measurements Single On On Off Start measurements Single On	HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off
Before measurement After measurement Load to viewer Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Silice group 1 Slices Dist. factor Position Vaited Silice group 1 Sloces Dist. factor Position Phase enc. dir. Rotation Off Cond Cond Cond Cond Cond Cond Cond Cond	SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off
After measurement Load to viewer On Inline movie Off Auto store images Con Load to stamp segments Coff Load images to graphic Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Slice group 1 Slices Dist. factor Position Orientation Transversa Phase enc. dir. Rotation Off Off Some	SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off
Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic Off segments Auto open inline display Off Start measurement without on further preparation Wait for user to start Off Start measurements single Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off Off Off Off Off Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Inline movie Auto store images Con Load to stamp segments Coff Load images to graphic Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices Dist. factor Position Orientation Transversa Phase enc. dir. Rotation Off Soff Rotation Off Start measurements Single Position Isocenter Transversa Phase enc. dir. Rotation On Off Start measurements Single Off S	SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off Off Off Off Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Slice group 1 Slices Dist. factor Position Orientation Phase enc. dir. Routine On Soff Start measurements 9 Dist. factor Transversa Phase enc. dir. Rotation On Off Soff Start measurements 9 Comparison Compariso	SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off Off Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Start measurements Slice group 1 Slices Dist. factor Position Orientation Transversa Phase enc. dir. Rotation Off Soff Start measurements Single Routine	SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off Off Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Load images to graphic Off segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Start measurements single Routine Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Start measurements Slice group 1 Slices Dist. factor Position Orientation Phase enc. dir. Rotor Solice group 1 Slocenter Orientation Orientation Rotor Orientation Solices S	SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices Dist. factor Position Orientation Phase enc. dir. Rotation Off Signature Off Single Poff Single Single Form Form Form Form Form Form Form Form	SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	Off REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Start measurement without further preparation Wait for user to start Off Start measurements single Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
further preparation Wait for user to start Start measurements Routine Slice group 1 Slices Dist. factor Position Orientation Phase enc. dir. Rotation Function Formal Start Market Start Market Start Sta	Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Wait for user to start Start measurements single Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	0 mm S - C - T R >> L A >> P F >> H Sum of Squares
Wait for user to start Start measurements single Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Table position MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	S - C - T R >> L A >> P F >> H Sum of Squares
Start measurements single Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	R >> L A >> P F >> H Sum of Squares
Routine Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select	R >> L A >> P F >> H Sum of Squares
Slice group 1 Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Coronal Transversal Coil Combine Mode Auto Coil Select	A >> P F >> H Sum of Squares
Slices 9 Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Transversal Coil Combine Mode Auto Coil Select	F >> H Sum of Squares
Dist. factor 100 % Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Coil Combine Mode Auto Coil Select	Sum of Squares
Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg	Auto Coil Select	•
Position Isocenter Orientation Transversa Phase enc. dir. A >> P Rotation 0.00 deg		LIOTOLUP
Phase enc. dir. A >> P Rotation 0.00 deg		Default
Phase enc. dir. A >> P Rotation 0.00 deg	al Shim mode	Standard
Rotation 0.00 deg	Adjust with body coil	Off
	Confirm freq. adjustmen	
Phase oversampling 0 %	Assume Silicone	Off
FoV read 192 mm	? Ref. amplitude 1H	0.000 V
FoV phase 100.0 %	Adjustment Tolerance	Auto
Slice thickness 10.00 mm	Adjust volume	
TR 130 ms	Position	Isocenter
TE 7.94 ms	Orientation	Transversal
Multi-band accel. factor 3	Rotation	0.00 deg
Filter None	R >> L	192 mm
Coil elements BC	A >> P	192 mm
Contrast	F >> H	170 mm
MTC Off	Physio	
Magn. preparation None	1st Signal/Mode	None
Flip angle 55 deg	ı	
Fat suppr. Fat sat.	BOLD	
	GLM Statistics	Off
Averaging mode Long term	Dynamic t-maps	Off
Reconstruction Magnitude	Starting ignore meas	0
Measurements 700	Ignore after transition	0
Delay in TR 0 ms	Model transition states	On
Multiple series Off	Temp. highpass filter	On
'	Threshold	4.00
Resolution	Paradigm size	20
Base resolution 64	Meas[1]	Baseline
Phase resolution 100 %		Baseline
Phase partial Fourier 5/8	Meas[2]	
Interpolation Off	Meas[3]	Baseline
	Meas[4]	Baseline
PAT mode None	Meas[5]	Baseline
Matrix Coil Mode Auto (CP)	Meas[6]	Baseline
Distortion Corr C#	Meas[7]	Baseline
Distortion Corr. Off	Meas[8]	Baseline
Prescan Normalize Off	Meas[9]	Baseline
Raw filter On	Meas[10]	Baseline
Elliptical filter Off	Meas[11]	Active
Hamming Off	Meas[12]	Active
Geometry	Meas[13]	Active
Geometry Interlegued	NA 5443	Active
Multi-slice mode Interleaved	NA 5451	Active
Series Interleaved		Active
Special sat. None	Meas[16]	
'	Meas[17]	Active
System	Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

1	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2442 Hz/Px No Off 0.51 ms
EPI factor Gradient mode RF spoiling	64 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble Invert RO/PE polarity PF omits higher k-space Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1
Step [2]	0

\\USER\CMI\SerialScanning\Scan1\Brain Localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:26

PAT: Off

Resolution		1st Signal/Mode Segments	None
Multiple series	Off	Physio	N.
Measurements Multiple series	1 Off	ļ.	500 mm
Reconstruction	Magnitude	F >> H	350 mm
Averaging mode	Short term	R >> L A >> P	350 mm 263 mm
		Rotation	0.00 deg
Water suppr.	None	Orientation	Transversal
Flip angle Fat suppr.	20 deg None	Position	Isocenter
Magn. preparation	None	Adjust volume	
MTC	Off	Adjustment Tolerance	Auto
TD	0 ms	? Ref. amplitude 1H	0.000 V
ontrast		Assume Silicone	Off
		Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Adjust with body coil	Off
i iitoi	filter	Shim mode	Tune up
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Default
Averages Concatenations	9	Coil Combine Mode	Adaptive Combine
	2.95 ms 2	Save uncombined	Off
TE	7.0 ms 2.95 ms	Transversal	F >> H
Slice thickness TR	8.0 mm 7.0 ms	Coronal	A >> P
FoV phase	100.0 %	Sagittal	R >> L
FoV read	260 mm	MSMA	S - C - T
Phase oversampling	0 %	Table position	0 mm
Rotation	0.00 deg	Table position	Н
Phase enc. dir.	R >> L	Positioning mode	REF
Orientation	Coronal	SP5	Off
Position	L0.0 A25.1 F0.7	SP7	Off Off
Dist. factor	300 %	SP1	Off
Slices	3	SP3	Off
Slice group 3		SP6	Off
Rotation	0.00 deg	SP8	Off
Phase enc. dir.	A >> P	SP2	Off
Orientation	Transversal	SP4	Off
Position	L0.0 A25.1 F0.7	HEA	On Off
Dist. factor	300 %	HEP	On
Slices	3	Body	Off
Slice group 2		System	~"
Rotation	0.00 deg		
Phase enc. dir.	A >> P	Tim CT mode	Off
Orientation	Sagittal		
Position	L0.0 A25.1 F0.7	Special sat.	None
Dist. factor	300 %	Saturation mode	Standard
Slices	3	Series	Interleaved
Slice group 1		- Multi-slice mode	Sequential
outine		Geometry	Cognostial
Start measurements	single	ļ	r
Wait for user to start	Off	Mode	Inplane
further preparation	0"	Elliptical filter	On
Start measurement without	On	Raw filter	Off
Auto open inline display	Off	B1 filter	Off
segments		Normalize	Off
Load images to graphic	On	Unfiltered images Prescan Normalize	Off On
Load to stamp segments	Off	Distortion Corr.	Off Off
Auto store images	On	Image Filter	Off
Inline movie	Off		
Load to viewer	On	Matrix Coil Mode	Auto (CP)
After measurement		PAT mode	None
Before measurement	Oli	Interpolation	On
Drio Recon	Off	 Phase partial Fourier 	Off
Prio Recon	Off		

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\SerialScanning\Scan1\Resting State 2.5mm

TA: 10:18 PAT: O	ff Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Properties		Body	Off
	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	5P5	OII
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
I	onigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	
Dist. factor	0 %	Auto Coil Select	Sum of Squares
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. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	la a contan
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
		1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	
Multiple series	Off	Temp. highpass filter	On
		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %		Baseline Baseline
Phase partial Fourier	Off	Meas[2]	
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
		Meas[9]	Baseline
Raw filter	On O#	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
OCI103		Meas[16]	Active
Special sat.	None	Meas[17]	Active
		Meas[18]	Active
System	 		
	//1	/ +	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\Field Map

Voxel size: 3.0×3.0×3.0 mm

Rel. SNR: 1.00

TA: 1:05

Special sat.

None

SIEMENS: gre_field_mapping

TA. 1.05	70xei 5ize. 5.0x5.0x5.0	II Rei. SINN. 1.00 SIEIMEINS.	gre_neid_mapping
Properties		System	
Prio Recon	Off	Body	Off
Before measurement	.	HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
	On	SP8	Off
Auto store images			
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments	0"	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	FIX
Wait for user to start	Off	Table position	Н
Start measurements	single	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1	40	Sagittal	R >> L
Slices	42	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Obias as a da	0
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	3.0 mm	Assume Silicone	Off
TR	492 ms	? Ref. amplitude 1H	0.000 V
TE 1	3.28 ms	Adjustment Tolerance	Auto
TE 2	8.04 ms	Adjust volume	
		Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	126 mm
MTC	Off		120 11111
Flip angle	90 deg	Sequence	
	•	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Short term	Asymmetric echo	Allowed
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
•	OII		
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
Phase partial Fourier	Off	•	
Interpolation	Off		
Matrix Coil Mode	Auto (CD)		
	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
•	-		
Geometry Multi-slice mode	Interleaved		
Series	Interleaved		

\\USER\CMI\SerialScanning\Scan1\T1W MEMPRAGE - SAG

Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load images to graphic Start measurement without further preparation Wait for user to start Start measurements Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slices per slab FoV phase FoV phase TE 1 Te 3 TE 2 Te 3 TE 3 TE 4 Te 2 Te 3 TE 4 Te 2 Te 3 TE 4 Te 1	Image Filter Off Distortion Corr. Off Unfiltered images Off Prescan Normalize On Normalize Off B1 filter Off Raw filter Off Elliptical filter Off Geometry Multi-slice mode Single shot Series Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP8 Off SP8 Off SP7 Off SP7 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S-C-T Sagittal R >> L
Prio Recon Before measurement After measurement Load to viewer Inline movie Off Auto store images Load images to graphic Start measurement without further preparation Wait for user to start Start measurements Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice per slab FoV pead FoV phase TE 1 TE 2 TE 3 TE 3 TE 4 On On On Don Don Don Don Don Don Don Don Don Do	Unfiltered images Prescan Normalize On Normalize Off B1 filter Off Raw filter Elliptical filter Off Geometry Multi-slice mode Series Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP7 Off SP1 SP7 Off SP7 Off SP5 Off Positioning mode Table position MSMA S-C-T
Before measurement After measurement Load to viewer Inline movie Off Auto store images Con Load to stamp segments On Load images to graphic Segments Auto open inline display Off Start measurement without further preparation Wait for user to start Start measurements Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slices per slab FoV read FoV phase Slice thickness TE 1 TE 2 TE 3 TE 3 TE 3 TE 4 On	Prescan Normalize Off Normalize Off B1 filter Off Raw filter Off Elliptical filter Off Geometry Multi-slice mode Single shot Series Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP2 Off SP8 Off SP8 Off SP8 Off SP9 Off SP7 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position O mm MSMA S-C-T
After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments On Load images to graphic On segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Start measurements single Outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0.0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Normalize B1 filter G1 filter G2 filter G3 filter G4 filter G5 filter G6 filter G6 filter G7 filter G8 filter G9 filter G9 filter Multi-slice mode S9 filter S9 filter G9 filter S9 filter
Load to viewer Off Inline movie Off Auto store images On Load to stamp segments On Load images to graphic On segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Start measurements single Outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0.0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	B1 filter Off Raw filter Off Elliptical filter Off Geometry Multi-slice mode Single shot Series Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP8 Off SP8 Off SP8 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position O mm MSMA S - C - T
Inline movie Auto store images Con Load to stamp segments Load images to graphic Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Off Start measurements Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slices per slab FoV read FoV phase Slice thickness TR TE 1 TE 2 TE 3 TE 3 TE 4 On On Off On On Off Son On	Raw filter Off Elliptical filter Off Geometry Multi-slice mode Single shot Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP6 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Off Start measurements Off Start measurements Off Start measurements Outine Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slices per slab FoV read FoV phase Slice thickness TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 TE 3 5.36 ms TE 4 7.22 ms	Elliptical filter Geometry Multi-slice mode Single shot Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP6 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Load to stamp segments Load images to graphic Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slice per slab FoV pead FoV phase Slice thickness TE 1 TE 2 TE 3 TE 3 TE 4 Off On On On On Off Slice Off Start measurements Off Single Off Single Off On	Elliptical filter Off Geometry Multi-slice mode Single shot Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP6 Off SP7 Off SP7 Off SP7 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Load images to graphic segments Auto open inline display Off Start measurement without On further preparation Wait for user to start Off Start measurements single outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Multi-slice mode Single shot Interleaved System Body Off HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP3 Off SP1 Off SP7 Off SP7 Off SP5 Off SP5 Off SP5 Off SP5 Off SP5 Off SP5 Off SP6 Off SP7 Off SP7 Off SP5 Off SP6 Off SP7 Off SP7 Off SP7 Off SP7 Off SP7 Off SP5 Off SP6 Off SP7 Off SP7 Off SP7 Off SP5 Off SP5 Off SP5 Off SP5 Off SP5 Off SP6 Off SP6 Off SP7 Off SP7 Off SP5 O
segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements outine Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slices per slab FoV read FoV phase Slice thickness TE 1 TE 2 TE 3 TE 3 TE 4 Off Soft On Single On Single On Single On Off On Off Single On Off Single On Off On Off Single On	Multi-slice mode Series Interleaved System Body HEP On HEA On SP4 Off SP2 Off SP8 Off SP8 Off SP8 Off SP9 Off SP7 Off SP7 Off SP7 Off SP7 Off SP5 Off SP5 Off SP5 Off SP7 Off SP5 Off SP7 Off SP5 Off SP7 Off SP7 Off SP5 Off SP5 Off SP5 Off SP5 Off SP6 SP7 Off SP7 SP7 Off SP7 Off SP7 SP5 Off SP5 Off SP6 SP7 Off SP7 SP7 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 SP6 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 SP7 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP7 SP5 Off SP6 SP7 SP7 Off SP7 SP7 SP7 Off SP7 SP7 SP7 SP7 Off SP7
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements outine Slab group 1 Slabs Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling Slice oversampling Slice sper slab FoV pead FoV phase Slice thickness TE 1 TE 2 TE 3 TE 3 TE 4 Off Since On Hoff Since	Series
Start measurement without further preparation Wait for user to start Start measurements outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Body
further preparation Wait for user to start Start measurements outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0.0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Body
Wait for user to start Start measurements single outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Body
Wait for user to start Start measurements single outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	HEP
Outine Slab group 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	HEA
Solutine Slab group 1 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP4 Off SP2 Off SP8 Off SP6 Off SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Slab group 1 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP2 Off SP8 Off SP6 Off SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP8 Off SP6 Off SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP6 Off SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Position Isocenter Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP3 Off SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Orientation Sagittal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP1 Off SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP7 Off SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Rotation 0.00 deg Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	SP5 Off Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Phase oversampling 0 % Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Positioning mode REF Table position H Table position 0 mm MSMA S - C - T
Slice oversampling 0.0 % Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Table position H Table position 0 mm MSMA S - C - T
Slices per slab 176 FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Table position 0 mm MSMA S - C - T
FoV read 256 mm FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Table position 0 mm MSMA S - C - T
FoV phase 100.0 % Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	MSMA S - C - T
Slice thickness 1.00 mm TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	
TR 2730 ms TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Cagittal
TE 1 1.64 ms TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Coronal A >> P
TE 2 3.5 ms TE 3 5.36 ms TE 4 7.22 ms	Transversal F >> H
TE 3 5.36 ms TE 4 7.22 ms	Save uncombined Off
TE 4 7.22 ms	
	Coil Combine Mode Adaptive Combine
A	Auto Coil Select Default
Averages 1	Shim mode Standard
Concatenations 1	Adjust with body coil Off
Filter Prescan Normalize	
Coil elements HEA;HEP	Assume Silicone Off
Our cicinents	? Ref. amplitude 1H 0.000 V
ontrast	
Magn. preparation Non-sel. IR	Adjustment Tolerance Auto
TI 1000 ms	Adjust volume
Flip angle 7.0 deg	Position Isocenter
Fat suppr. None	Orientation Sagittal
Water suppr. None	Rotation 0.00 deg
	F >> H 256 mm
Averaging mode Long term	A >> P 256 mm
Reconstruction Magnitude	R >> L 176 mm
Measurements 1	1
Multiple series Each measuremen	nt Physio
·	1st Signal/Mode None
esolution	———— Dark blood Off
Base resolution 256	
Phase resolution 100 %	Inline
Slice resolution 100 %	Subtract Off
Phase partial Fourier Off	Std-Dev-Sag Off
Slice partial Fourier Off	Std-Dev-Cor Off
Interpolation Off	Std-Dev-Cor Off
	Std-Dev-Tia Off
PAT mode GRAPPA	
Accel. factor PE 2	MIP-Sag Off
Ref. lines PE 32	MIP-Cor Off
Matrix Coil Mode Auto (Triple)	MIP-Tra Off
Reference scan mode Integrated	MIP-Time Off

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	4
Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Echo spacing	9.6 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Pondout polarity	Positive
Readout polarity Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS
Averaging	IXIVIO

\\USER\CMI\SerialScanning\Scan1\DWI B=0 PA - AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	Oli	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
	On Off		
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	REF
	Sg.S	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg		
	0 %	Shim mode	Standard
Phase oversampling		Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms		Auto
Multi-band accel. factor	3	Adjust volume	In a contact
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Dhusia	
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude		0 s/mm²
Measurements	1	b-value	
Delay in TR	0 ms	Diff. weighted images	On Off
Multiple series	Off	Trace weighted images	Off
	-	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None	ļ	~ .
Matrix Coil Mode	Auto (CP)	Sequence	
Distantian O	O#	Introduction	Off
Distortion Corr.	Off	Bandwidth	1628 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	96
•		Gradient mode	Fast
Geometry		RF spoiling	Off
Multi-slice mode	Interleaved		
Series	Interleaved	Excite pulse duration	2560 us
		Refocus pulse duration	5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\SerialScanning\Scan1\DKI 64 Directions AP 3 WEIGHTS- AX				
TA: 9:59	PAT: Off	Voxel size: 2.0×2.0×2.0 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Desitioning mode	FIV
Start measurements	single	Positioning mode	FIX H
Routine		Table position Table position	П 0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default .
Rotation	0.00 deg	Chim mode	Standard
Phase oversampling	0 %	Shim mode	Standard Off
FoV read	192 mm	Adjust with body coil	_
FoV phase	100.0 %	Confirm freq. adjustment Assume Silicone	Off Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	4500 ms	Adjustment Tolerance	Auto
TE	93.8 ms	Adjustment Tolerance Adjust volume	Auto
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	—	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	l	
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	3
Reconstruction	Magnitude	b-value 1	0 s/mm²
Measurements	7	b-value 2	1000 s/mm²
Delay in TR	0 ms	b-value 3	2000 s/mm²
Multiple series	Off	Diff. weighted images	On
Resolution		Trace weighted images	On
Base resolution	96	Average ADC maps	Off
Phase resolution	100 %	Individual ADC maps	Off
Phase partial Fourier	6/8	FA maps	Off
Interpolation	Off	Mosaic	On
		Tensor	Off
PAT mode	None	Noise level	40
Matrix Coil Mode	Auto (CP)	Diff. directions	64
Distortion Corr.	Off	Soguence	
Prescan Normalize	Off	Sequence	Off
Raw filter	On	Introduction Randwidth	Off 1638 Hz/Dy
Elliptical filter	Off	Bandwidth	1628 Hz/Px
Hamming	Off	Free echo spacing	Off
		Echo spacing	0.72 ms
Geometry Multi aliaa mada	Interiory of	EPI factor	96
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	Off

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off Online multi-band recon. Online

1.00

Off

FFT scale factor

Physio recording

\\USER\CMI\SerialScanning\Scan1\DWI B=0 PA- AX

TA: 0:16 PAT: O	ff Voxel size: 2.0×2.0×2.0 mm	Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_diff
Properties	1	Special sat.	None
Prio Recon	Off S	System	
Before measurement	 	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	<u></u>	SP5	Off
Wait for user to start	Off -		
Start measurements	single	Positioning mode	FIX
I .	51g10	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg		
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3110 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
I		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.		NOHE
Grad. rev. fat suppr.	Enabled [Diff	
Averaging mode	Long term	Diffusion mode	MDDW
Averaging mode Reconstruction	Long term Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
	0 ms	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None		
Matrix Coil Mode	Auto (CP)	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off .	Echo spacing	0.72 ms
Hamming	Off	EPI factor	96
Tallilling	OII	Gradient mode	96 Fast
Geometry			Off
Multi-slice mode	Interleaved	RF spoiling	OII
Series	Interleaved	Excite pulse duration	2560 us
		Pefocus pulse duration	5120 us

Refocus pulse duration

5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\SerialScanning\Scan1\DWI B=0 AP- AX

TA: 0:16 PAT: O	ff Voxel size: 2.0×2.0×2.0 mm	Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_diff
Properties		Special sat.	None
Prio Recon	Off S	System	
Before measurement	 	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	- · · ·	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	J.,	SP5	Off
Wait for user to start	Off -		
Start measurements	single	Positioning mode	FIX
I .	51g10	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg		Ctondoud
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3110 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	la a a a a ta a
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
1	-	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	160 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.		140110
Grad. rev. fat suppr.	Enabled	Diff	
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On
Multiple series	Off	Trace weighted images	Off
•		Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None	2	
Matrix Coil Mode	Auto (CP)	Sequence	0"
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off .	Echo spacing	0.72 ms
Hamming	Off	EPI factor	96
1		Gradient mode	Fast
Geometry		RF spoiling	Off
Multi-slice mode	Interleaved	goming	
Series	Interleaved	Excite pulse duration	2560 us
		Pefocus nulse duration	5120 us

Refocus pulse duration

5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

	\\USER\CMI\SerialScannir	•	
TA: 5:00	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER:	despot1_baby
Proportios		B1 filter	Off
Properties Prio Recon	Off	Raw filter	On
Before measurement	Oli	Intensity	Weak
		Slope	25
After measurement Load to viewer	On	Elliptical filter	Off
Inline movie	Off	Geometry	
Auto store images	On	Multi-slice mode	Sequential
Load to stamp segments	On	Series	Ascending
Load images to graphic	Off	Selles	Ascending
segments	OII	System	
Auto open inline display	Off	Body	On
Start measurement without	On	HE2	Off
further preparation	Oli	HE4	Off
Wait for user to start	Off	HE1	Off
Start measurements	single	HE3	Off
I	519.15	Positioning mode	REF
Routine		Table position	H
Slab group 1		Table position	0 mm
Slabs	1	MSMA	S - C - T
Dist. factor	20 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %		<u>-</u>
Slices per slab	96	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness TR	1.80 mm 5.2 ms	Assume Silicone	Off
TE		? Ref. amplitude 1H	0.000 V
	2.4 ms	Adjustment Tolerance	Auto
Averages	1 1	Adjust volume	
Concatenations Filter	Raw filter	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Con elements	ВС	Rotation	0.00 deg
Contrast		R >> L	350 mm
Flip angle	16 deg	A >> P F >> H	263 mm 350 mm
Averaging mode	Chart tarm	F >> H	350 mm
Averaging mode Reconstruction	Short term	Physio	
Measurements	Magnitude 8	1st Signal/Mode	None
Pause after meas. 1	0.0 s	Inline	
Pause after meas. 2	0.0 s	Inline Subtract	Off
Pause after meas. 3	0.0 s	Std-Dev-Sag	Off
Pause after meas. 4	0.0 s	Std-Dev-Sag Std-Dev-Cor	Off
Pause after meas. 5	0.0 s	Std-Dev-Col Std-Dev-Tra	Off
Pause after meas. 6	0.0 s	Std-Dev-Tra Std-Dev-Time	Off
Pause after meas. 7	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Sag MIP-Cor	Off
	OII	MIP-Tra	Off
Resolution		MIP-Time	Off
Base resolution	128	Save original images	On
Phase resolution	95 %		5
Slice resolution	90 %	Sequence	
Phase partial Fourier	6/8	Introduction	Off
Slice partial Fourier	7/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
Matrix Coil Mode	Auto (CP)	Contrasts	1
		Bandwidth	350 Hz/Px
Image Filter	Off	RF pulse type	Low SAR
Distortion Corr.	Off	Gradient mode	Fast
Prescan Normalize	Off	RF spoiling	On
Normalize	Off		

IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	37.8 deg
Gradient Spoiler Factor	0.3
Baby Mode	Off

\\USER\CMI\SerialScanning\Scan1\IR SPGR -SAG

Properties Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	Off On Off On Off Off Off Off Off Off Off 20 %	Series System Body HE2 HE4 HE1 HE3 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode Auto Coil Select	On Off Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	On Off On On Off Off Off Off Off Off	Body HE2 HE4 HE1 HE3 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	On Off On On Off Off Off Off Off Off	Body HE2 HE4 HE1 HE3 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	Off On On Off Off Off Off Off Off 1	HE2 HE4 HE1 HE3 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	Off On On Off Off Off Off Off Off 1	HE4 HE1 HE3 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	On On Off Off Off Off Off single	Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	On Off Off Off Off single	Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	On Off Off Off Off single	Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	FIX H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Coutine Slab group 1 Slabs Dist. factor Position	Off Off Off Off single	Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	H 0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	Off Off single	Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	0 mm S - C - T R >> L A >> P F >> H Off Adaptive Combine
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	Off Off single	MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	S - C - T R >> L A >> P F >> H Off Adaptive Combine
Start measurement without further preparation Wait for user to start Start measurements Coutine Slab group 1 Slabs Dist. factor Position	Off Off single	Sagittal Coronal Transversal Save uncombined Coil Combine Mode	R >> L A >> P F >> H Off Adaptive Combine
Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	single	Coronal Transversal Save uncombined Coil Combine Mode	A >> P F >> H Off Adaptive Combine
Wait for user to start Start measurements Routine Slab group 1 Slabs Dist. factor Position	single	Transversal Save uncombined Coil Combine Mode	F >> H Off Adaptive Combine
Soutine Slab group 1 Slabs Dist. factor Position	1	Save uncombined Coil Combine Mode	Off Adaptive Combine
Slab group 1 Slabs Dist. factor Position	1	Coil Combine Mode	Adaptive Combine
Slab group 1 Slabs Dist. factor Position			•
Slabs Dist. factor Position		Auto Coil Select	D - f II
Dist. factor Position			Default
Position	ZU %	Shim mode	Tune up
		Adjust with body coil	Off
Oui a m4 a 4 i a	Isocenter	Confirm freq. adjustment	Off
Orientation	Sagittal	Assume Silicone	Off
Phase enc. dir.	A >> P	? Ref. amplitude 1H	0.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
Slice oversampling	0.0 %	Position	Isocenter
Slices per slab	48	Orientation	Transversal
FoV read	220 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	350 mm
Slice thickness	3.60 mm	A >> P	263 mm
TR	5.3 ms	F >> H	350 mm
TE	2.4 ms	l .	
Averages	1	Physio	
Concatenations	T	1st Signal/Mode	None
Filter	Raw filter	Inline	
Coil elements	BC	Subtract	Off
Contrast		Std-Dev-Sag	Off
Flip angle	5 deg	Std-Dev-Cor	Off
		Std-Dev-Tra	Off
Averaging mode	Short term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
Multiple series	Off	MIP-Tra	Off
Resolution		MIP-Time	Off
Base resolution	128	Save original images	On
Phase resolution	100 %		
Slice resolution	100 %	Sequence	
Phase partial Fourier	Off	Introduction	Off
Slice partial Fourier	6/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
Matrix Coil Mode	Auto (CP)	Contrasts Bandwidth	1 350 Hz/Px
Image Filter	Off	RF pulse type	Low SAR
Distortion Corr.	Off	Gradient mode	Fast
Prescan Normalize	Off	RF spoiling	On
Normalize	Off		
B1 filter	Off	IR Mode	On
Raw filter	On	Inversion time	400 ms
Intensity	Weak	RF pulse duration	0.8 ms
Slope	25	RF pulse TBW	3.0
Elliptical filter	Off	RF Spoil Increment	37.8 deg
·	3 11	Gradient Spoiler Factor	0.3
Geometry Multi-slice mode	Sequential	Baby Mode	Off

\\USER\CMI\SerialScanning\Scan1\Despot 2 -SAG

	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER: o	lespot2_baby2
Properties		Slice partial Fourier	7/8
Prio Recon	Off	Interpolation	Off
Before measurement	Oll	Matrix Coil Mode	Auto (CP)
After measurement			
Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr. Prescan Normalize	Off Off
Auto store images	On	Normalize	Off
Load to stamp segments	On	B1 filter	Off
Load images to graphic	Off	Raw filter	On
segments	0"	Intensity	Medium
Auto open inline display	Off	Slope	48
Start measurement without further preparation	On	Elliptical filter	Off
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
		Series	Ascending
Routine Slab group 1		ļ	3
Slabs	1	System Body	On
Dist. factor	20 %	HE2	Off
Position	Isocenter	HE4	Off
Orientation	Sagittal	HE1	Off
Phase enc. dir.	A >> P	HE3	Off
Rotation	0.00 deg	Desition in a second	FIV
Phase oversampling	0 %	Positioning mode Table position	FIX H
Slice oversampling	0.0 %	Table position	П 0 mm
Slices per slab	96	MSMA	S - C - T
FoV read	220 mm	Sagittal	R >> L
FoV phase Slice thickness	100.0 % 1.80 mm	Coronal	A >> P
TR	5.40 ms	Transversal	F >> H
TE	2.700 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Adaptive Combine
Concatenations	1	Auto Coil Select	Default
Filter	Raw filter	Shim mode	Tune up
Coil elements	BC	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Flip angle	60 deg	Assume Silicone	Off
·····	·····	? Ref. amplitude 1H	0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction	Magnitude	Adjust volume	
Measurements	16	Position	Isocenter
Pause after meas. 1	0.0 s	Orientation	Transversal
Pause after meas. 2 Pause after meas. 3	0.0 s 0.0 s	Rotation	0.00 deg
Pause after meas. 3 Pause after meas. 4	0.0 s	R >> L A >> P	350 mm 263 mm
Pause after meas. 5	0.0 s	F >> H	350 mm
Pause after meas. 6	0.0 s	I	500 11111
Pause after meas. 7	0.0 s	Physio	
Pause after meas. 8	0.0 s	1st Signal/Mode	None
Pause after meas. 9	0.0 s	Inline	
Pause after meas. 10	0.0 s	Subtract	Off
Pause after meas. 11	0.0 s	Std-Dev-Sag	Off
Pause after meas. 12	0.0 s	Std-Dev-Cor	Off
Pause after meas. 13	0.0 s	Std-Dev-Tra	Off
Pause after meas. 14	0.0 s	Std-Dev-Time	Off
Pause after meas. 15	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
Resolution		MIP-Tra	Off Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution Phase partial Fourier	90 %	Sequence	
	5/8	Introduction	Off

	Dimension Elliptical scanning Contrasts Bandwidth	3D Off 1 350 Hz/Px
	RF pulse type	Low SAR
l	Gradient mode	Fast
l	RF spoiling	Off
	IR Mode	Off
l	Dummy pulses	300
l	Incremented FA Mode	On
l	mcDESPOT FA Mode	On
l	Number of FA Increments	8
l	RF pulse duration	0.8 ms
l	RF pulse TBW	3.0
l	RF Phase Increment	180 deg
l	Baby Mode	Off

\\USER\CMI\SerialScanning\Scan1\MT OFF -SAG

		Naws-P	0#
Properties		Normalize	Off
Prio Recon	Off	B1 filter Raw filter	Off Off
Before measurement		Elliptical filter	Off
After measurement		1 .	Oil
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On	Saturation mode	Standard
Load images to graphic	Off	Special sat.	None
segments	0"	opoolal dat.	
Auto open inline display	Off	Tim CT mode	Off
Start measurement without	On	l	J.,
further preparation	Off	System	
Wait for user to start		Body	Off
Start measurements	single	HEP	On
Routine		HEA	On O"
Slab group 1		—— SP4	Off
Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation	Sagittal	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	176	Table position	H
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP	Shim mode	Tune un
Contrast		Adjust with body coil	Tune up Off
MTC	Off	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	Auto
		Position	Isocenter
Averaging mode	Short term	Orientation	Transversal
Reconstruction	Magnitude	Rotation	0.00 deg
Measurements	1	R >> L	350 mm
Multiple series	Each measurement	A >> P	263 mm
Resolution		F >> H	350 mm
Base resolution	256	 I	
Phase resolution	100 %	Physio	
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	6/8	Segments	1
Slice partial Fourier	6/8	Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	Inline	
Ref. lines PE	32	Subtract	Off
Matrix Coil Mode	Auto (Triple)	Liver registration	Off
Reference scan mode	Integrated	Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Sag Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Cor Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Tra Std-Dev-Time	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\SerialScanning\Scan1\MT ON -SAG

roperties		Normalize	Off
Prio Recon	Off	B1 filter	Off
Before measurement	5	Raw filter	Off
After measurement		Elliptical filter	Off
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On	Saturation mode	Standard
Load images to graphic	Off	Special sat.	None
segments			
Auto open inline display	Off	Tim CT mode	Off
Start measurement without	On	ı	
further preparation Wait for user to start	Off	System	
Start measurements		Body	Off
Start measurements	single	HEP	On
Routine		HEA	On O#
Slab group 1		SP4	Off
Slabs	1	SP2 SP8	Off Off
Dist. factor	20 %	SP8 SP6	Off
Position	Isocenter	SP3	Off
Orientation	Sagittal	SP1	Off
Phase enc. dir.	A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0 %		
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab FoV read	176 256 mm	Table position	Н
FoV read FoV phase	256 mm 100.0 %	Table position	0 mm
Slice thickness	1.00 mm	MSMA	S-C-T
TR	30 ms	Sagittal	R >> L
TE	11.00 ms	Coronal	A >> P F >> H
Averages	1	Transversal Save uncombined	F >> H Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP		
_		Shim mode	Tune up
Contrast MTC	On	Adjust with body coil	Off
Magn. preparation	On None	Confirm freq. adjustment	Off
Flip angle	15 deg	Assume Silicone	Off
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Water suppr.	None	Adjustment Tolerance	Auto
		Adjust volume Position	Isocenter
Averaging mode	Short term	Orientation	Transversal
Reconstruction	Magnitude	Rotation	0.00 deg
Measurements	Took measures and	R >> L	350 mm
Multiple series	Each measurement	A >> P	263 mm
Resolution		F >> H	350 mm
Base resolution	256	 1	
Phase resolution	100 %	Physio	Nasa
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	6/8	Segments	1
Slice partial Fourier	6/8	Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA		O#
Accel. factor PE	2	Resp. control	Off
Ref. lines PE	32	Inline	
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\SerialScanning\Scan1\T2 FLAIR

TA: 2:44 PAT: 2 Voxel size: 0.9×0.9×5.0 mm Rel. SNR: 1.00 SIEMENS: tse			
Descrition		Distortion Corr.	Off
Properties		Prescan Normalize	Off
Prio Recon	Off	Normalize	On
Before measurement		Intensity	Medium
After measurement		Cut off	20
Load to viewer	On	Width	4
Inline movie	Off		
Auto store images	On	Unfiltered images	Off
Load to stamp segments	Off	B1 filter	Off
Load images to graphic	Off	Raw filter	Off
segments	.	Elliptical filter	On
Auto open inline display	Off	Mode	Inplane
Start measurement without	On	Geometry	
further preparation	On	Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Interleaved
		Series	······
Start measurements	single	Special sat.	None
Routine			
Slice group 1		Tim CT mode	Off
Slices	25	System	
Dist. factor	30 %		Off
Position	Isocenter	Body HEP	On
Orientation	Transversal		_
Phase enc. dir.	R >> L	HEA	On
Rotation	90.00 deg	Positioning mode	FIX
Phase oversampling	0 %	Table position	H
FoV read	230 mm	Table position	0 mm
FoV phase	87.5 %	MSMA	S - C - T
Slice thickness	5.0 mm	_	
TR	9000 ms	Sagittal	R >> L
TE	89.0 ms	Coronal	A >> P
	1	Transversal	F >> H
Averages	•	Save uncombined	Off
Concatenations	2	Coil Combine Mode	Adaptive Combine
Filter	Normalize, Elliptical filter	Auto Coil Select	Default
Coil elements	HEA;HEP	Shim mode	Standard
Contrast		Adjust with body coil	Off
TD	0.0 ms	Confirm freq. adjustment	Off
MTC	Off	Assume Silicone	Off
Magn. preparation	Slice-sel. IR	? Ref. amplitude 1H	0.000 V
TI	2500 ms		
Freeze suppressed tissue	On	Adjustment Tolerance	Auto
Flip angle	150 deg	Adjust volume	
	-	Position	Isocenter
Fat suppr.	Fat sat.	Orientation	Transversal
Fat sat. mode	Strong	Rotation	90.00 deg
Water suppr.	None	A >> P	230 mm
Restore magn.	Off	R >> L	202 mm
Averaging mode	Short term	F >> H	161 mm
Reconstruction	Magnitude	Physic	
Measurements	1	Physio	None
Multiple series	Each measurement	1st Signal/Mode	None
Resolution		Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %		
	Off	Inline	
Phase partial Fourier		Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	On	Std-Dev-Cor	Off
PAT mode	GRAPPA	Std-Dev-Tra	Off
Accel. factor PE	2	Std-Dev-Time	Off
Ref. lines PE	31	MIP-Sag	Off
Matrix Coil Mode	_	MIP-Cor	Off
	Auto (Triple)	MIP-Tra	Off
Reference scan mode	Integrated	MIP-Time	Off
Image Filter	Off	Save original images	On
		Javo oligiliai illages	J 11

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	On
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	9.92 ms
Define	Turbo factor
Turbo factor	16
Echo trains per slice	8
RF pulse type	Normal
Gradient mode	Normal

\\USER\CMI\SerialScanning\Scan1\HCP_Working Memory

Properties	TA: 5:12 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Flore Price Pric	Droportion		Body	Off
Fine Recon Selfor measurement Selfor measurement SP4		0"		
Before measurement Load to views		Off		
Alter measurement Losd to viewer On Inline movie Or Inline movie Or SP8 Off SP8 Off SP6 Off SP6 Off SP6 Off SP7	Before measurement			
Laad to viewer	After measurement			
Inline move	Load to viewer	On		
Auto Store images	Inline movie	Off		
Load to stamp segments Off SP7 Off Off SP7 Off	Auto store images	On		
Load images to graphic segments SP7	Load to stamp segments	Off		
Segments		Off		
Auto Open inline display Off SPS Start measurement without further preparation Table position H Table position MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal Transversal Transversal Transversal Transversal Auto Coll Select Default Default Transversal Auto Coll Select Default				
Start measurement without	1 -	Off	SP5	Off
Further preparation Wait for user to start Start measurements Single MSMA S - C - T			Positioning mode	RFF
Wait for user to start Start measurements Start measurements Single MSMA S - C - T		011		
Start measurements		Off		
Sagittal R >> L				
Silices group 1	Start measurements	Single		
Silice group	Routine			
Silices 54 Coll Combine Mode Sum of Squares	Slice group 1	_		
Dist. factor		54		
Position				
Orientation			Auto Coil Select	Default
Phase enc. dir. A >> P Rotation O.00 deg Phase oversampling D % Phase Phase Partial Fourier Off Phase Partial Fourier Off Phase resolution D % Phase partial Fourier Off Phase resolution D % Phase partial Fourier Off Phase Partial Fourier Off Phase Partial Fourier Off Phase Partial Fourier Off Phase Partial Fourier Off Phase Partial Fourier Off Phase Partial Fourier Off Passe			Shim mode	Standard
Rotation				
Phase oversampling				
FoV read				
FoV phase				
Silice thickness 2.50 mm TR				
TR				e Auto
TE Multi-band accel. factor Filter None Rotation 1.92 mm 1.92	Slice thickness	2.50 mm	Adjust volume	
Multi-band accel. factor Similar Simila	TR	1450 ms	Position	Isocenter
Filter	TE	40.0 ms	Orientation	Transversal
Filter	Multi-band accel. factor	3	Rotation	0.00 deg
Coil elements	Filter	None	R >> L	•
Contrast F >> H 135 mm MTC Mgn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 209 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Meas[1] Baseline Phase resolution 100 % Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Matrix Coil Mode Auto (CP) Meas[8] Baseline P				
MTC	1	1127 (,1121		
Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD Fat suppr. Fat suppr. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Delay in TR 0 ms Model transition 0 Multiple series Off Temp. highpass filter On Multiple series Off Temp. highpass filter On Resolution 78 Meas[1] Baseline Phase resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[7] Baseline Prescan Normalize Off Meas[10] Baseline Prescan Normalize				100 111111
Filip angle Fat suppr. Fat sat.	MTC	Off		
Fat suppr. Fat sat. SOLD	Magn. preparation	None	1st Signal/Mode	None
Fat suppr. Fat sat. Averaging mode	Flip angle	55 deg	DOLD.	
Averaging mode	Fat suppr.			<u>~"</u>
Reconstruction Magnitude Measurements 209 Ignore after transition 0 Model transition states On 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[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[8] Baseline Meas[9] Baseline Meas[1] Active Meas[1] Meas[1] Active Meas[1] Active Meas[1] Active Meas[1] Active Meas[1] Meas[
Measurements 209 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Temp. highpass filter On Phase resolution 100 % Paradigm size 20 Phase partial Fourier Off Meas[1] Baseline Interpolation Off Meas[2] Baseline PAT mode None 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[11] Active Meas[12] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[16] Active				
Delay in TR				
Multiple series		209		
Resolution	Delay in TR	0 ms	Model transition states	s On
Resolution	Multiple series	Off	Temp. highpass filter	On
Base resolution 78	Posalution			4.00
Meas		70		
Phase resolution 100 % Phase partial Fourier Off Interpolation Off Meas[3] Baseline Meas[4] Baseline Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Distortion Corr. Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[10] Baseline Meas[1] Active Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Special sat. None Meas[17] Active System Meas[18] Active			•	
Prase partial Fourier Off Meas[3] Baseline Interpolation Off Meas[4] Baseline PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[8] 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[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Meas[16] Active Meas[17] Active System				
Name	I			
PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[7] Baseline Prescan Normalize Off Meas[8] Baseline Raw filter On Meas[9] Baseline Raw filter On Meas[10] Baseline Hamming Off Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Special sat. None Meas[17] Active System Meas[18] Active	Interpolation	Off		
Matrix Coil ModeAuto (CP)Meas[6]BaselineDistortion Corr.OffMeas[7]BaselinePrescan NormalizeOffMeas[8]BaselineRaw filterOnMeas[9]BaselineElliptical filterOffMeas[10]BaselineHammingOffMeas[11]ActiveGeometryMeas[12]ActiveMulti-slice modeInterleavedMeas[13]ActiveSeriesInterleavedMeas[14]ActiveSpecial sat.NoneMeas[16]ActiveSystemMeas[17]Active	DAT mode	None		
Distortion Corr. Off Prescan Normalize Off Raw filter On Meas[10] Baseline Elliptical filter Off Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[18] Active Meas[18] Active Meas[18] Active Meas[18] Active				
Distortion Corr. Off Prescan Normalize Off Meas[8] Baseline	IVIALIIX COII IVIOGE	Auto (CP)		
Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active System Meas[18] Active	Distortion Corr.	Off		
Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active System Meas[18] Active				
Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active System Meas[18] Active				
Hamming				
Meas[12]	l ·			
Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[16] Active System Meas[17] Active Active Meas[18] Active		OII	Meas[12]	Active
Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[16] Active System Meas[17] Active Active Meas[18] Active	Geometry		Meas[13]	Active
Series Interleaved Meas[15] Active Special sat. None Meas[16] Active System Meas[17] Active Active Meas[18] Active		Interleaved		Active
Special sat. None Meas[16] Active System Meas[17] Active Active Active				
System None Meas[17] Active Meas[18] Active				
System Meas[18] Active	Special sat.	None		
Cysion	System			
	System			

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\HCP_Gambling

TA: 3:23 PAT: Of		mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On O#	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O#	SP3	Off
Load to stamp segments	Off Off	SP1	Off
Load images to graphic	Oii	SP7	Off
segments	Off	SP5	Off
Auto open inline display		Desitioning made	DEE
Start measurement without	On	Positioning mode	REF
further preparation	Off	Table position	H 0 mm
Wait for user to start		Table position	0 mm
Start measurements	single	MSMA	S-C-T
Routine		Sagittal	R >> L A >> P
Slice group 1		— Coronal Transversal	A >> P F >> H
Slices	54		
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	1	
Fat suppr.	Fat sat.	BOLD	
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	134	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	— Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize		Meas[8]	Baseline
Raw filter	UIT	Meas[9]	Baseline
	Off On		
	On	Meas[10]	Baseline
Elliptical filter	On Off	Meas[10] Meas[11]	Active
Elliptical filter Hamming	On	Meas[10] Meas[11] Meas[12]	Active Active
Elliptical filter Hamming Geometry	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13]	Active Active Active
Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Active Active Active Active
Elliptical filter Hamming Geometry	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active Active Active
Elliptical filter Hamming Geometry Multi-slice mode Series	On Off Off Interleaved Interleaved	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active Active Active Active
Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan1\HCP_Motor

TA: 3:45 PAT: Of		mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Proportion		Body	Off
Properties	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	On	SP2	Off
Load to viewer	On Off	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On Off	SP3	Off
Load to stamp segments	Off Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	Off	SP5	Off
Auto open inline display Start measurement without	On	Positioning mode	REF
further preparation	OII	Positioning mode Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigle	Sagittal	R >> L
Routine		— Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Odii Odieot	
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OL C. C.	0#
	l and taken		Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	149	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On On
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold	4.00
Base resolution	78	— Paradigm size	20 Rasolina
Phase resolution	100 %	Meas[1]	Baseline Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline Baseline
Prescan Normalize	Off	Meas[8]	Baseline Baseline
Raw filter	On	Meas[9]	Baseline Baseline
Elliptical filter	Off	Meas[10]	
Hamming	Off	Meas[11]	Active
		Meas[12]	Active
Geometry		Meas[13]	Active Active
Multi-slice mode	Interleaved	Meas[14]	
Series	Interleaved	Meas[15]	Active Active
Special sat.	None	Meas[16] Meas[17]	Active
		Meas[17] Meas[18]	Active
System			/10tive
		69/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Ocquentos	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan1\HCP_Language

TA: 4:08 PAT: Of		×2.5 mm Rel. SNR: 1.00 USER	R: cmrr_mbep2d_bold
Properties		Body	Off
	Off	HEP	On
Prio Recon	Oli	HEA	On
Before measurement		SP4	Off
After measurement	0	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	353	
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigie	Sagittal	R >> L
Routine			
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Con elements	HEA,HE	F >> H	135 mm
Contrast		1 >> 11	199 11111
MTC	Off	Physio Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	165	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•	-	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %		
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off		Active
•		Meas[12]	
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
0	NI	Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
3,5.5.11		71/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\HCP_Social_Cog

TA: 3:38 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER	t: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
		SP4	Off
After measurement	0-	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
ı	3 '	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Con Select	Delault
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
	100.0 %		
FoV phase		Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
			Nana
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	144	Ignore after transition	0
		•	
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
•		Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10] Meas[11]	Active
Hamming	Off		
		Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
0	NI	Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
	7.	3/4	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	2040	
	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
-	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\HCP_Relational Processing

TA: 3:07 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm		: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	On	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
		SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
		F >> H	135 mm
Contrast			
MTC	~ · ·	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	123	Ignore after transition	0
	0 ms	Model transition states	_
Delay in TR	Off		On
Multiple series	Oil	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	<u> </u>	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	0"	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
•	Interlogued	Meas[14]	Active
Multi-slice mode	Interleaved	Meas[15]	Active
Series	Interleaved	Meas[16]	Active
Special sat.	None		Active
		Meas[17]	
System		Meas[18]	Active
	75	5/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan1\HCP_Emotional Processing

TA: 2:26 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Proportion		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	On	SP2	Off
Load to viewer	On O#	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O#	SP3	Off
Load to stamp segments	Off Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	O#	SP5	Off
Auto open inline display	Off	Docitioning made	DEE
Start measurement without	On	Positioning mode	REF
further preparation	O#	Table position	H 0 mm
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA Societal	S-C-T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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. adjustm	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
I	,	F >> H	135 mm
Contrast			
MTC	_	Physio 1/Ma da	Maria
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	95	Ignore after transition	
Delay in TR	0 ms	Model transition state	
Multiple series	Off	Temp. highpass filter	
1		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
······································	/\dio \(\text{\text{O}}\)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
		Meas[12] Meas[13]	Active
Geometry	lista da accad	Meas[14]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15] Meas[16]	Active
Special sat.	None	Meas[17]	Active
	-	Meas[17] Meas[18]	Active
System			Active
		7/∔	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan1\Story_Corps_A

TA: 6:56 PAT: Of		mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0#	HEP	On
Prio Recon Before measurement	Off	HEA	On
		SP4	Off
After measurement Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
	On	SP6	Off
Auto store images Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	Oli	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	OII	Table position	H
Wait for user to start	Off	Table position	0 mm
		MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Routine		— Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	F >> F Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Coli Select	Delault
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	— Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	1	
Fat suppr.	Fat sat.	BOLD	0"
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	281	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	— Paradigm size	20 Basslins
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	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
•	Off	Meas[11]	Active
паннини	Oli		Active
Hamming	Oli	Meas[12]	
Geometry		Meas[13]	Active
Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active Active
Geometry		Meas[13] Meas[14] Meas[15]	Active Active Active
Geometry Multi-slice mode Series	Interleaved Interleaved	Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active
Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14] Meas[15]	Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	2040	
	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
-	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\Story_Corps_B

Properties		Body	Off
Prio Recon	Off	—— HEP	On
Before measurement	Off	HEA	On
After measurement		SP4	Off
	05	SP2	Off
Load to viewer	On Off	SP8	Off
Inline movie	_	SP6	Off
Auto store images	On Off	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	0"	SP5	Off
Auto open inline display	Off		DEE
Start measurement without	On	Positioning mode	REF
further preparation	0"	Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	0010	
Fat suppr.	Fat sat.	BOLD	0"
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	354	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	—— Paradigm size	20
	78 100 %	Meas[1]	Baseline
Phase resolution		Meas[2]	Baseline
Phase partial Fourier	Off Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10] Meas[11]	Active
Hamming	Off	Meas[12]	Active
· ·		Meas[12]	Active
Seometry			
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	Active
		n/100011/1	Active
Special Sat.	None	Meas[17] Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan1\Story_Corps_C

TA: 7:01 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER	: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On O"
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	-	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	3 -	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 dea	-	
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	284	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
I LUM IIILOI	Off	Meas[10]	Baseline
Ellintical filter		Meas[11]	Active
Elliptical filter	Off	Meas[12]	Active
Hamming	Off		
Hamming Geometry		Meas[13]	Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active Active
Hamming Geometry		Meas[13] Meas[14] Meas[15]	Active Active Active
Hamming Geometry Multi-slice mode Series	Interleaved Interleaved	Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14] Meas[15]	Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan1\Story_Corps_D

TA: 7:54 PAT: Of	f Voxel size: 2.5×2.5×2.5 m	m Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0#	- HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	g	Sagittal	R >> L
Routine		- Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
	_		
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	1	
Fat suppr.	Fat sat.	BOLD	
. с. серр		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	321	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
Resolution		- Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	= =	
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
		Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
		i - 1	
Geometry		Meas[13]	Active
Geometry Multipolice mode	Interlogued	Meas[13] - Meas[14]	
Multi-slice mode	Interleaved	Meas[14]	Active
•	Interleaved Interleaved	Meas[14] Meas[15]	Active Active
Multi-slice mode		Meas[14] Meas[15] Meas[16]	Active Active Active
Multi-slice mode Series	Interleaved	Meas[14] Meas[15]	Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan1\Breathhold_CMRR

TA: 3:30 PAT: Of		2.5 mm Rel. SNR: 1.00 USER	R: cmrr_mbep2d_bold
Properties		Body	Off
	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1	E 7	Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
Orientation	T > C4.4	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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1570 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	143 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	1	
Fat suppr.	Fat sat.	BOLD	
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	129	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	OII	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Diatartia: 0		····· Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On O"	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
System		87/±	

Meas[19]ActiveMeas[20]ActiveMotion correctionOnInterpolation3D-K-spaceSpatial filterOff

Introduction	Off
Bandwidth	2374 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan1\BreathHold MGH

Prio Recon Off Body On Before measurement Off HEP Off After measurement SP4 Off Load to viewer On SP8 Off Inline movie Off SP8 Off Auto store images On SP8 Off Load to stamp segments Off SP6 Off Load images to graphic Off SP7 Off segments Off SP7 Off Auto open inline display Off SP7 Off Start measurement without further preparation Off Positioning mode REF Auto open inline display Off Table position H Walf for user to start Off Positioning mode REF Table position H Table position H Routine MSMA S - C - T Sagittal R >> L Coronal Name Sagittal R >> L Coil Combine Mode Sum of Squares Alight f	
HEP	
Before measurement After measurement SP4 Off	
Set of the measurement After measurement After measurement Load to viewer On SP8 Off S	
Atter measurement Load to viewer On SP8 Off SP9 Off SP9 Off SP9 Off SP9 Off SP9 Off SP9 Off SP7 Off Off SP7 Off	
Description Content	
Inline movie	
Auto store images	
Coad to stamp segments	
Load images to graphic segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Slice group 1 Slices 57 Dist. factor 0% Position Isocenter Orientation Transversal Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0% FoV read 192 mm FoV phase 100.0 % Slice thickness 2.5 mm TR Slice thickness 2.5 mm TR TR TR TS	
Segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Single Routine Slice group 1 Slices ST Dist. factor Orientation Orientation Phase enc. dir. Rotation Phase oversampling Phase oversampling FoV read Slice thickness Slice thickness Slice thickness Slice thickness Slice thickness Slice dements SP5 Off Positioning mode REF Table position NMMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Coil Combine Mode Sum of Squares Default Shim mode Standard Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Position Off Position Off FoV read Slice thickness Slice thi	
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Single Routine Slice group 1	
Start measurement without further preparation Wait for user to start Off Start measurements single Routine Slice group 1 Slices 57 Dist. factor 0 % Position Shim mode Transversal Shim mode Sum of Squares Auto Coil Select Default Shim mode Standard A >> P Adjust with body coil Phase enc. dir. A >> P Adjust with body coil Phase oversampling 0 % FoV read 192 mm FoV phase 100.0 % Slice thickness 2.5 mm TR TR TR TR TS	
further preparation Wait for user to start Start measurements Single Routine Slice group 1	
Wait for user to start Start measurementsOff singleTable position MSMA S - C - T0 mmRoutineSagittal Coronal Transversal Position Orientation Phase enc. dir. Phase oversampling FoV read Slice thickness Transversal Proversacy Transversal Proversacy Transversal Dist. factor Orientation Phase oversampling Transversal Proversacy Transversal DefaultSum of Squares DefaultShim mode Adjust with body coil Confirm freq. adjustment Assume Silicone Off Assume Silicone Off PRef. amplitude 1H Adjust volumeOff Orientation Adjust volumeTR TE Averages Concatenations Filter Coil elements1 Aone BCAction Action Adjustment Tolerance Adjust volumeRef. amplitude 1H Position Rotation For intention Action Action Doubles Doubles DefaultTransversal Rotation For intention Position Coil elementsRescute intention BCPhysioAction For intention Rotation For intention Rotation Action For intention Rotation Action Rotation<	
Start measurements Single Routine Silice group 1 Silices 57 Dist. factor 0 % Position Isocenter Orientation Transversal Phase enc. dir. A >> P Adjust with body coil Off Poste thickness 2.5 mm TR 1570 ms TR Averages 1 Rotation Transversal Averages 1 Rotation Rotation 1 Rotation	
Routine Slice group 1	
Slice group 1 Slices 57 Coinal A >> P Transversal F >> H Coil Combine Mode Sum of Squares Auto Coil Select Default	
Slice group 1 Slices 57 Dist. factor 0 % Position Isocenter Orientation Transversal Shim mode Auto Coil Select Default Notation 0.00 deg Standard Phase enc. dir. A >> P Rotation 0.00 deg Confirm freq. adjustment Off Phase oversampling 0 % FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 Rotation 0.00 deg Concatenations 1 Rotation 0.00 deg Contrast Physio MTC Off Transversal F >> H Coil Combine Mode Sum of Squares Default Coil Select Default Coil Select Default Transversal Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Period Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Assume Silicone Off Position Isocenter Orientation Transversal Rotation 0.00 deg R >> L 192 mm Filter None A >> P 192 mm Filter None F >> H Coil Combine Mode Sum of Squares Adjust with body coil Off Assume Silicone Off Filter None Isocenter F >> H Transversal F >> H Coil Combine Mode Sum of Squares Adjust with body coil Off Assume Silicone Off Filter None Isocenter F >> H Transversal F >> H Coil Combine Mode Sum of Squares Adjust with body coil Off Assume Silicone Off Filter None Isocenter F >> H Transversal F >> H Coil Combine Mode Sum of Squares	
Slices Dist. factor Dist. factor Position Orientation Phase enc. dir. Rotation Phase oversampling FoV pase FoV phase Slice thickness TR 1570 ms TE 40 ms Averages Contrast Coil Combine Mode Auto Coil Select Default Coil Combine Mode Auto Coil Select Default Standard Adjust with body coil Confirm freq. adjustment Off Assume Silicone Off PRef. amplitude 1H 0.000 V Adjustment Tolerance Auto Adjust volume Position FoV phase Slice thickness TR 1570 ms Position Forientation Filter None Coil clements BC Talisversal Coil Combine Mode Sum of Squares Default Coil Combine Mode Sum of Squares Default Standard Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Pref. amplitude 1H 0.000 V Adjustment Tolerance Auto Adjust volume Position Forientation Transversal Rotation 0.00 deg Concatenations 1 R >> L 192 mm F >> H 143 mm Contrast Physio TS Signal/Mode None None	
Dist. factor 0 %	
Position Isocenter 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 FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Physio MTC Flip angle 90 deg	
Orientation Transversal Shim mode Standard Phase enc. dir. A >> P Rotation 0.00 deg Confirm freq. adjustment Off Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC Filts Signal/Mode None Contrast Physio Shim mode Standard Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Pfilo angle Standard Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off Position Isocenter Orientation Transversal Rotation 0.00 deg Filter None A >> P 192 mm Filter None A A SITURE N	
Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0 % FoV read 192 mm FoV phase 100.0 % Slice thickness 2.5 mm TR 1570 ms TE 40 ms Averages 1 Concatenations 1 Filter None Coil elements BC MTC Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off PRef. amplitude 1H 0.000 V Adjustment Tolerance Auto Adjust volume Position Isocenter Transversal Rotation 0.00 deg R >> L 192 mm F >> H 192 mm F >> H 143 mm Physio Physio Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off PRef. amplitude 1H 0.000 V Adjustment Tolerance Auto Adjust volume R >> L 1000 deg F >> H 192 mm F >> H 143 mm Physio Physio Ist Signal/Mode None	
Rotation 0.00 deg Confirm freq. adjustment Off Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio Ist Signal/Mode None	
Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio Ist Signal/Mode None	
FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None	
FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio Ist Signal/Mode None	
Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None	
TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast MTC Off 1st Signal/Mode None Flip angle 90 deg 1st Signal/Mode None	
TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None	
Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg	
Concatenations1R >> L192 mmFilterNoneA >> P192 mmCoil elementsBCF >> H143 mmContrastPhysioMTCOff1st Signal/ModeNoneFlip angle90 deg	
Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg	
Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None	
Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg	
MTC Off 1st Signal/Mode None	
Flin angle 90 deg	
Flin angle 90 deg	
Fat suppr Fat sat	
GLIVI Statistics OII	
Averaging mode Long term Dynamic t-maps Off	
Reconstruction Magnitude Starting ignore meas 0	
Measurements 129 Ignore after transition 0	
Delay in TR 0 ms Model transition states On	
Multiple series Off Temp. highpass filter On	
Threshold 4.00	
Resolution Paradigm size 20	
Base resolution /8 Meas[1] Baseline	
Phase resolution 100 % Meas[2] Baseline	
Phase partial Fourier Off Meas[3] Baseline	
Interpolation Off Meas[4] Baseline Baseline	
1711 11000	
Matrix Coil Mode Auto (CP) Meas[6] Baseline	
Distortion Corr. Off Meas[7] Baseline Meas[7] Baseline	
Process Normaliza Off	
Pow filter Dasellie	
Raw filter On Meas[10] Baseline	
Elliptical filter Off Meas[11] Active	
Hamming Off Meas[12] Active	
Geometry Meas[13] Active	
Multi-slice mode Interleaved Meas[14] Active	
Series Interleaved Meas[15] Active	
Series Interleaved Meda[10] Active	
Active 1 Measure	
System None Meas[17] Active Meas[18] Active	

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

•	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EDI fostor	70
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00
•	

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TA: 5:28 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER: ep	o2d_bold_sms_mgh_v22
Properties		Body	On O"
Prio Recon	Off	- HEP	Off
Before measurement	5 11	HEA	Off
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	.	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	Off	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
ı	g	Sagittal	R >> L
Routine		- Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		0
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.5 mm	Adjust volume	
TR	1570 ms	Position	Isocenter
TE	40 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	192 mm
Filter	None	A >> P	192 mm
Coil elements	BC	F >> H	143 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	90 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long torm		Off
Averaging mode Reconstruction	Long term Magnitude	Dynamic t-maps Starting ignore meas	0
Measurements	190	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
1	Jii	Threshold	4.00
Resolution		- Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
······	/\dio \Oi)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
		Meas[15]	Active
Series	Interleaved	Meas[16]	Active
Special sat.	None	Meas[17]	Active
1 .		Meas[17]	Active
System			

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

1	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00
T	

\\USER\CMI\SerialScanning\Scan1\MSIT_CMRR

TA: 5:06 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm		cmrr_mbep2d_bold
Properties	1	Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oll	HEA	On
		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	3	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3	Auto Con Select	Delault
Orientation	T > C4.4	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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	Adio
			100 024 4 549 2
TR	1570 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	143 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	13t Olgital/Mode	None
		BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	190	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Multiple series	Oil		_
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20 Pagalina
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	O.I.	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distantia O		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Goomotry		Meas[13]	Active
Geometry	luta da aya d	Meas[14]	Active
Multi-slice mode	Interleaved		
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	Active
	. 13110	Meas[17]	Active
System		Meas[18]	Active
· -	93	2/1	

Meas[19]ActiveMeas[20]ActiveMotion correctionOnInterpolation3D-K-spaceSpatial filterOff

d	· ·	
	Introduction	Off
	Bandwidth	2374 Hz/Px
	Flow comp.	No O''
	Free echo spacing	Off
	Echo spacing	0.55 ms
	EPI factor	78
	Gradient mode	Fast
	RF spoiling	Off
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	Off
	MB RF phase scramble	Off
	SENSE1 coil combine	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Online
	FFT scale factor	1.00
	Physio recording	Off
	Triggering scheme	Standard
	Starting ignore meas	0
	Paradigm size	2
	Multiplier	1
	Step [1]	1
	Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Brain Localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

PAT: Off

TA: 0:26

TA. 0.20 P	A1. OII VOXEI SIZE. 1.4x1.0x	to.0 IIIII Rei. SNR. 1.00	SIEMENS. gre
		Dhaga regulation	75.0/
Properties		Phase resolution	75 % Off
Prio Recon	Off	- Phase partial Fourier	On On
Before measurement		Interpolation	
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Imaga Filtor	Off
Auto store images	On	Image Filter Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments		Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	On	Raw filter	Off
further preparation	0"	Elliptical filter	On
Wait for user to start	Off	Mode	Inplane
Start measurements	single	0	•
Routine		Geometry - Multi-slice mode	Cognoptial
Slice group 1		Series	Sequential Interleaved
Slices	3		
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	System	
Slice group 2	2	Body	Off
Slices	3	HEP	On
Dist. factor Position	300 % L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Slice group 3	0.00 deg	SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Dogitioning mode	REF
Rotation	0.00 deg	Positioning mode Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil Confirm freq. adjustment	Off Off
Contrast		Assume Silicone	Off
TD	0 ms	? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	, 1310
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	Physic	
-		Physio	None
Resolution	050	1st Signal/Mode Segments	None 1
Base resolution	256		1

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\SerialScanning\Scan2\Motion Training

TA: 1:35 PAT: Off	Voxel size: 3.0x3.0x10.0 mr	m Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
	Oli	HEA	Off
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	3F3	
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
I	sg.c	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	9	Coil Combine Mode	
Dist. factor	100 %		Sum of Squares
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	0.00 deg 0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.00 mm	Adjust volume	
TR	130 ms	Position	Isocenter
TE	7.94 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	BC	A >> P	192 mm
Contrast		F >> H	170 mm
	0#	Physio	
MTC	Off	•	Name
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	700	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold	4.00
Base resolution	64	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	5/8	Meas[2]	Baseline
•	Off	Meas[3]	Baseline
Interpolation	OII	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	, idio (01)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On		Baseline
Elliptical filter	Off	Meas[10]	
Hamming	Off	Meas[11]	Active
		Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
		7/ ₊	

Meas[19]ActiveMeas[20]ActiveMotion correctionOnInterpolation3D-K-spaceSpatial filterOff

Introduction Bandwidth	Off 2442 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Brain Localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:26

PAT: Off

Resolution		1st Signal/Mode Segments	None
Multiple series	Off	Physio	N.
Measurements Multiple series	1 Off	ļ.	500 mm
Reconstruction	Magnitude	F >> H	350 mm
Averaging mode	Short term	R >> L A >> P	350 mm 263 mm
		Rotation	0.00 deg
Water suppr.	None	Orientation	Transversal
Flip angle Fat suppr.	20 deg None	Position	Isocenter
Magn. preparation	None	Adjust volume	
MTC	Off	Adjustment Tolerance	Auto
TD	0 ms	? Ref. amplitude 1H	0.000 V
ontrast		Assume Silicone	Off
		Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Adjust with body coil	Off
	filter	Shim mode	Tune up
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Default
Averages Concatenations	9	Coil Combine Mode	Adaptive Combine
	2.95 ms 2	Save uncombined	Off
TE	7.0 ms 2.95 ms	Transversal	F >> H
Slice thickness TR	8.0 mm 7.0 ms	Coronal	A >> P
FoV phase	100.0 %	Sagittal	R >> L
FoV read	260 mm	MSMA	S - C - T
Phase oversampling	0 %	Table position	0 mm
Rotation	0.00 deg	Table position	Н
Phase enc. dir.	R >> L	Positioning mode	REF
Orientation	Coronal	SP5	Off
Position	L0.0 A25.1 F0.7	SP7	Off Off
Dist. factor	300 %	SP1	Off
Slices	3	SP3	Off
Slice group 3		SP6	Off
Rotation	0.00 deg	SP8	Off
Phase enc. dir.	A >> P	SP2	Off
Orientation	Transversal	SP4	Off
Position	L0.0 A25.1 F0.7	HEA	On Off
Dist. factor	300 %	HEP	On
Slices	3	Body	Off
Slice group 2		System	~"
Rotation	0.00 deg		
Phase enc. dir.	A >> P	Tim CT mode	Off
Orientation	Sagittal		
Position	L0.0 A25.1 F0.7	Special sat.	None
Dist. factor	300 %	Saturation mode	Standard
Slices	3	Series	Interleaved
Slice group 1		- Multi-slice mode	Sequential
outine		Geometry	Cognostial
Start measurements	single	ļ	r
Wait for user to start	Off	Mode	Inplane
further preparation	0"	Elliptical filter	On
Start measurement without	On	Raw filter	Off
Auto open inline display	Off	B1 filter	Off
segments		Normalize	Off
Load images to graphic	On	Unfiltered images Prescan Normalize	Off On
Load to stamp segments	Off	Distortion Corr.	Off Off
Auto store images	On	Image Filter	Off
Inline movie	Off		
Load to viewer	On	Matrix Coil Mode	Auto (CP)
After measurement		PAT mode	None
Before measurement	Oli	Interpolation	On
Drio Recon	Off	 Phase partial Fourier 	Off
Prio Recon	Off		

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\SerialScanning\Scan2\Resting State 2.5mm

operties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oil	HEA	On
		SP4	Off
After measurement	0:-	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	31 3	
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Ctart measurements	Sirigio	Sagittal	R >> L
outine			A >> P
Slice group 1		Coronal	
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mada	Standard
		Shim mode	
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
			_
Coil elements	HEA;HEP	A >> P	192 mm
ontrast		F >> H	135 mm
MTC	Off	Physio Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	DOLD.	
Fat suppr.	Fat sat.	BOLD	
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
·		Threshold	4.00
esolution		—— Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %		Baseline
Phase partial Fourier	Off	Meas[2]	
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distantian C		····· Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10]	Active
Hamming	Off		
· ·		Meas[12]	Active
eometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	oquonoo	
	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1 0

\\USER\CMI\SerialScanning\Scan2\Movie 2.5mm

		1 5 .	0"
roperties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	.	HEA	On O"
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	011	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
	On		H
further preparation	Off	Table position	
Wait for user to start		Table position	0 mm
Start measurements	single	MSMA	S-C-T
outine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
	0.00 deg 0 %	Assume Silicone	Off
Phase oversampling			
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
ontrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	, BOLD	
Fat suppr.	Fat sat.	BOLD	0"
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
esolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	76 100 %	Meas[1]	Baseline
		Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10] Meas[11]	Active
Hamming	Off	Meas[11]	Active
•			
eometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special act	None	Meas[16]	Active
Special sat.	None	Meas[17]	Active
		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Inscapes 2.5mm

roperties		Body	Off
Prio Recon	Off	—— HEP	On
Before measurement	Oli	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
		SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O"	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	9	Sagittal	R >> L
outine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Coll Select	
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
•	2.50 mm		Auto
Slice thickness		Adjust volume	la a a a a ta a
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
ontrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
esolution	<u></u>	—— Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off		
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	····· Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
oomotri/		Meas[12]	Active
eometry			Active
Multi-slice mode	Interleaved	Meas[14]	
Series	Interleaved	Meas[15]	Active
On a sigl and	None	Meas[16]	Active
			() Oth (O
Special sat.	None	Meas[17] Meas[18]	Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Flanker_Task

		5×2.5 mm Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	3F3	OII
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1			
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation		Confirm freq. adjustment	Off
	0.00 deg 0 %	Assume Silicone	Off
Phase oversampling			
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
- · · ·	55 deg	13t Signal/Mode	None
Flip angle	•	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
-	Off		On
Multiple series	OII	Temp. highpass filter Threshold	4.00
Resolution			
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	·····	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10]	Active
	Off		Active
Hamming		Meas[12] Meas[13]	Active
Hamming		I MASCITAL	ACIIVE
Hamming Geometry			
Hamming	Interleaved	Meas[14]	Active
Hamming Geometry	Interleaved Interleaved	Meas[14] Meas[15]	Active Active
Hamming Geometry Multi-slice mode Series	Interleaved	Meas[14] Meas[15] Meas[16]	Active Active Active
Hamming Geometry Multi-slice mode		Meas[14] Meas[15]	Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px
Flow comp.	No Off
Free echo spacing	0.55 ms
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Field Map

Rel. SNR: 1.00

Voxel size: 3.0×3.0×3.0 mm

TA: 1:05

Special sat.

None

SIEMENS: gre_field_mapping

TA. 1.05	70xei 5ize. 5.0x5.0x5.0	II Rei. SINN. 1.00 SIEIMEINS.	gre_neid_mapping
Properties		System	
Prio Recon	Off	Body	Off
Before measurement	3	HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
	On	SP8	Off
Auto store images			
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments	0"	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	FIX
Wait for user to start	Off	Table position	Н
Start measurements	single	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1	40	Sagittal	R >> L
Slices	42	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Obias as a da	0
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	3.0 mm	Assume Silicone	Off
TR	492 ms	? Ref. amplitude 1H	0.000 V
TE 1	3.28 ms	Adjustment Tolerance	Auto
TE 2	8.04 ms	Adjust volume	
		Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	126 mm
MTC	Off		120 11111
Flip angle	90 deg	Sequence	
	•	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Short term	Asymmetric echo	Allowed
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
•	OII		
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
Phase partial Fourier	Off	•	
Interpolation	Off		
Matrix Coil Mode	Auto (CD)		
	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
•	-		
Geometry Multi-slice mode	Interleaved		
Series	Interleaved		

\\USER\CMI\SerialScanning\Scan2\T1W MEMPRAGE - SAG

Normantia a		Image Filter	Off
Properties	~	Distortion Corr.	Off
Prio Recon	Off	Unfiltered images	Off
Before measurement		Prescan Normalize	On
After measurement	_	Normalize	Off
Load to viewer	On	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	On	Emption mor	O.I.
Load images to graphic	On	Geometry	
segments		Multi-slice mode	Single shot
Auto open inline display	Off	Series	Interleaved
Start measurement without	On	System	
further preparation			O#
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
andia -		HEA	On O"
outine		SP4	Off
Slab group 1		SP2	Off
Slabs	1	SP8	Off
Dist. factor	50 %	SP6	Off
Position	Isocenter	SP3	Off
Orientation	Sagittal	SP1	Off
Phase enc. dir.	A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0 %	Destinates	DEE
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	176	Table position	Н
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	2730 ms	Coronal	A >> P
TE 1	1.64 ms	Transversal	F >> H
TE 2	3.5 ms	Save uncombined	Off
TE 3	5.36 ms	Coil Combine Mode	Adaptive Combine
TE 4	7.22 ms	Auto Coil Select	Default
Averages	1	Shim mode	Standard
Concatenations	1		Off
Filter	Prescan Normalize	Adjust with body coil	
		Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
ontrast		? Ref. amplitude 1H	0.000 V
Magn. preparation	Non-sel. IR	Adjustment Tolerance	Auto
TI	1000 ms	Adjust volume	
Flip angle	7.0 deg	Position	Isocenter
Fat suppr.	None	Orientation	Sagittal
Water suppr.	None	Rotation	0.00 deg
		F >> H	256 mm
Averaging mode	Long term	A >> P	256 mm
Reconstruction	Magnitude	R >> L	176 mm
Measurements	1	Physio	
Multiple series	Each measurement		None
•		1st Signal/Mode	None
esolution	250	— Dark blood	Off
Base resolution	256	l	
Phase resolution	100 %	Inline	
Slice resolution	100 %	Subtract	Off
Phase partial Fourier	Off	Std-Dev-Sag	Off
Slice partial Fourier	Off	Std-Dev-Cor	Off
Interpolation	Off	Std-Dev-Tra	Off
PAT mode	CDADDA	Std-Dev-Time	Off
	GRAPPA	MIP-Sag	Off
Accel. factor PE	2	MIP-Cor	Off
Ref. lines PE	32	MIP-Tra	Off
Matrix Coil Mode	Auto (Triple) Integrated	MIP-Time	Off
Reference scan mode			

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	4
Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Echo spacing	9.6 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Pondout polarity	Positive
Readout polarity Readout trajectory	Bipolar
Add. scale factor	4.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS
Averaging	IXIVIO

TA: 0:16 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	5	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
	Oli	SP3	Off
segments	0#		_
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	0.00	SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg		
Phase oversampling	0 %	Shim mode	Standard
		Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	Auto
Multi-band accel. factor	3	Position	Isocenter
Filter	None		
Coil elements	BC	Orientation	Transversal
Contract		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1	140110
Grad. rev. fat suppr.	Enabled	Diff	
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	mayındu c 1	b-value	0 s/mm²
	1 0 ma	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None	Dill. directions	UT
Matrix Coil Mode	Auto (CP)	Sequence	
Distantia O		Introduction	Off
		Bandwidth	1628 Hz/Px
			Off
			_
Elliptical filter			
Hamming	Off	EPI factor	96
Geometry		Gradient mode	Fast
=	Interlegued	RF spoiling	Off
		Evoite pulse duration	2560 us
•	Off Off On Off Off Off Interleaved Interleaved	Bandwidth Free echo spacing Echo spacing EPI factor Gradient mode	1628 Hz/Px Off 0.72 ms 96 Fast

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\SerialScanning\Scan2\DKI 64 Directions AP 3 WEIGHTS- AX					
TA: 9:59	PAT: Off	Voxel size: 2.0×2.0×2.0 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_diff	

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	J	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Danisian in a sanda	FIV
Start measurements	single	Positioning mode	FIX
Routine	-	Table position Table position	H 0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg		Ctandand
Phase oversampling	0 %	Shim mode	Standard Off
FoV read	192 mm	Adjust with body coil	_
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off 0.000 V
TR	4500 ms	? Ref. amplitude 1H	
TE	93.8 ms	Adjustment Tolerance Adjust volume	Auto
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off		192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	1 >> 11	144 111111
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	3
Reconstruction	Magnitude	b-value 1	0 s/mm²
Measurements	1	b-value 2	1000 s/mm²
Delay in TR	0 ms	b-value 3	2000 s/mm²
Multiple series	Off	Diff. weighted images	On
Resolution		Trace weighted images	On
Base resolution	96	Average ADC maps	Off
Phase resolution	100 %	Individual ADC maps	Off
Phase partial Fourier	6/8	FA maps	Off
Interpolation	Off	Mosaic	On
		Tensor	Off
PAT mode	None	Noise level	40
Matrix Coil Mode	Auto (CP)	Diff. directions	64
Distortion Corr.	Off		
Prescan Normalize	Off	Sequence	0"
Raw filter	On	Introduction	Off
Elliptical filter	Off	Bandwidth	1628 Hz/Px
Hamming	Off	Free echo spacing	Off
1		Echo spacing	0.72 ms
Geometry	latadani I	EPI factor	96
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	Off
1			

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off Online multi-band recon. Online

1.00

Off

FFT scale factor

Physio recording

\\USER\CMI\SerialScanning\Scan2\DWI B=0 PA - AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:16

0"		
Off	System	
	Body	On
	HEP	Off
On	HEA	Off
Off	SP4	Off
		Off
		Off
		Off
Oli		Off
0#		Off
On		Off
0"	SP5	Off
	Positioning mode	REF
single		H
		0 mm
		-
		S - C - T
		R >> L
		A >> P
Isocenter		F >> H
Transversal	Coil Combine Mode	Sum of Squares
P >> A	Auto Coil Select	Default
180.00 deg		
		Standard
		Off
	Confirm freq. adjustment	Off
	Assume Silicone	Off
	? Ref. amplitude 1H	0.000 V
	Adjustment Tolerance	Auto
-		Isocenter
		Transversal
BC		180.00 deg
-0"		192 mm
-		192 mm
	F >> H	144 mm
	Physio	
180 deg	•	None
Fat sat.	1st Signal/Mode	None
Enabled	Diff	
	Diffusion mode	MDDW
		1
Magnitude		0 s/mm²
1		On S/IIIII-
0 ms		
Off		Off
		Off
	<u> </u>	Off
96	FA maps	Off
100 %	Mosaic	Off
6/8	Tensor	Off
Off	Noise level	40
	110100101	64
None	I	- -
Auto (CP)	Sequence	
O#	Introduction	Off
	Bandwidth	1628 Hz/Px
		Off
On		0.72 ms
Off		••••••
Off	EPI factor	96
	Gradient mode	Fast
		Off
Interleaved	Excite pulse duration	2560 us
	Off On Off Off Off Off Off Off Off Off O	On HEP Off SP4 On SP2 Off SP8 Off SP7 Off SP7 Off SP7 Off SP5 Off SP5 Off SP5 Off SP5 Off SP7 Off SP7 Off SP7 Off SP7 Off SP7 Off SP3 Off SP7 Off SP7 Off SP7 Off SP3 Oposition MSMA Sagittal Coronal Transversal Coil Combine Mode Auto Coil Select Auto Coil Select Snim mode Actual Coil Select Snim mode Actual Coil Select Assume Silicone Ref. amplitude 1H Adjust with body coil Confirm freq. adjustment Assume Silicone Ref. amplitude 1H <

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramb	ole Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band rec	on. Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\SerialScanning\Scan2\DWI B=0 AP- AX

TA: 0:16 PAT: C	off Voxel size: 2.0×2	.0×2.0 mm Rel. SNR: 1.00 USEI	R: cmrr_mbep2d_diff
Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
	OII		
further preparation	O#	SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
.	72		8 - C - 1 R >> L
Slices		Sagittal	
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %		Off
FoV read	192 mm	Adjust with body coil	_
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3110 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Con elements	טט	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	ı	
Refocus flip angle	180 deg	Physio	
	Fat sat.	1st Signal/Mode	None
Fat suppr. Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude		0 s/mm²
Measurements	1	b-value	
Delay in TR	0 ms	Diff. weighted images	On O"
Multiple series	Off	Trace weighted images	Off
•	-	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
		Diff. directions	64
PAT mode	None	I	
Matrix Coil Mode	Auto (CP)	Sequence	
Distortion Corr.	Off	Introduction	Off
		Bandwidth	1628 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On Off	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	96
Geometry		Gradient mode	Fast
Multi-slice mode	Interlegued	RF spoiling	Off
	Interleaved	Evoito nulco duration	2560 us
Series	Interleaved	Excite pulse duration	2560 us
		Refocus pulse duration	5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\SerialScanning\Scan2\HCP_Working Memory

TA: 5:12 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Droportico		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off		
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	Oli	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	U % Isocenter	Auto Coil Select	Default
		Object of the second of the se	Otdd
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Con elements	IILA,IILI	F >> H	135 mm
Contrast		F >> 11	133 11111
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	•	
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	209	Ignore after transition	0
Delay in TR	0 ms	Model transition states	s On
Multiple series	Off	Temp. highpass filter	On
		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off		
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Coometry		Meas[12]	Active
Geometry	lata da accad	Meas[14]	Active
Multi-slice mode	Interleaved		
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	Active
Οροσίαι σαι.	110110	Meas[17]	Active
System		Meas[18]	Active
	120	∩/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

3 3 4 4 5 1 5 5	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Scan2\HCP_Gambling

TA: 3:23 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm	,	cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	5	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	5	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
1	3 '	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	0"
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	134	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20 Pagalina
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	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
1		Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	Active
1	140110	Meas[17]	Active
System		Meas[18]	Active
	12°	2/4	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\HCP_Motor

TA: 3:45 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER:	cmrr_mbep2d_bold
Properties	I	Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oll	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	0.11	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
ı	Sirigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 dea		
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	149	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20 Pagalina
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
		Meas[10]	Baseline Active
Elliptical filter	Off		ACHVE
Elliptical filter Hamming	Off Off	Meas[11]	
Hamming	Off	Meas[12]	Active
Hamming Geometry	Off	Meas[12] Meas[13]	Active Active
Hamming Geometry Multi-slice mode	Off Interleaved	Meas[12] Meas[13] Meas[14]	Active Active Active
Hamming Geometry	Off	Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active
Hamming Geometry Multi-slice mode Series	Off Interleaved Interleaved	Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active Active
Hamming Geometry Multi-slice mode	Off Interleaved	Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\HCP_Language

TA: 4:08 PAT: Off		n Rel. SNR: 1.00 USER	: cmrr_mbep2d_bold
Properties		Body	Off
•	0"	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off	3F3	OII
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigic	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1			
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation			Off
	0.00 deg 0 %	Confirm freq. adjustment Assume Silicone	Off
Phase oversampling			
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
- · · · · · · · · · · · · · · · · · · ·	55 deg	13t digital/iviode	None
Flip angle	<u> </u>	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	165	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
•	Off		On
Multiple series	Oil	Temp. highpass filter Threshold	4.00
Resolution			
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
			Baseline
Raw filter	On	I Measi10i	
	On Off	Meas[10] Meas[11]	
Raw filter		Meas[11]	Active
Raw filter Elliptical filter Hamming	Off	Meas[11] Meas[12]	Active Active
Raw filter Elliptical filter Hamming Geometry	Off Off	Meas[11] Meas[12] Meas[13]	Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode	Off Off	Meas[11] Meas[12] Meas[13] Meas[14]	Active Active Active Active
Raw filter Elliptical filter Hamming Geometry	Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode Series	Off Off Interleaved Interleaved	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode	Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\HCP_Social_Cog

TA: 3:38 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USI	ER: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
	Oil	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments			
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	0	Table position	H
Wait for user to start	Off	Table position	0 mm
			_
Start measurements	single	MSMA	S-C-T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	5.4	Transversal	F >> H
	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
			Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
	·	F >> H	135 mm
Contrast	I	D	
MTC	_	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.		0"
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	144	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	•	Baseline
Phase resolution	100 %	Meas[1]	
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off		Baseline
Raw filter	On	Meas[9]	
Elliptical filter	Off	Meas[10]	Baseline
•		Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Main-Shot Hibat		Meas[15]	Active
Carias		IVICAGI IOI	/ 10ti v C
Series	Interleaved		Λ ctive
		Meas[16]	Active
Series Special sat.	None		Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1 0

\\USER\CMI\SerialScanning\Scan2\HCP_Relational Processing

TA: 3:07 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Ducusantica		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments			
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigle		R >> L
Routine		Sagittal	
Slice group 1	-	Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Operators		F >> H	135 mm
Contrast		Dharaia	
MTC	_	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
		Ignore after transition	
Measurements	123		0
Delay in TR	0 ms	Model transition states	
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	OII	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
			Active
Geometry		Meas[13]	
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special act	None	Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
	12	0/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\HCP_Emotional Processing

TA: 2:26 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Droportion		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off		
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Single		R >> L
Routine		Sagittal	
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
	A >> P	Adjust with body coil	
Phase enc. dir.			Off
Rotation	0.00 deg	Confirm freq. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
ı	,	F >> H	135 mm
Contrast	I		
MTC	_	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging made			
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	95	Ignore after transition	0
Delay in TR	0 ms	Model transition states	
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
	78 100 %	Meas[1]	Baseline
Phase resolution		Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off		Baseline
Raw filter	On	Meas[9]	
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
1	U	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
	12.	2/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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	Introduction Bandwidth	Off 2374 Hz/Px
	Flow comp.	No No
	Free echo spacing	Off
	Echo spacing	0.55 ms
	EPI factor	78
	Gradient mode	Fast
	RF spoiling	Off
	Excite pulse duration	2560 us
	Single-band images	Off
	MB LeakBlock kernel	Off
	MB RF phase scramble	Off
	SENSE1 coil combine	Off
	Invert RO/PE polarity	Off
	Online multi-band recon.	Online
	FFT scale factor	1.00
	Physio recording	Off Standard
	Triggering scheme Starting ignore meas	0
	Paradigm size	2
	Multiplier	1
	Step [1]	1
	Step [2]	0
•		

\\USER\CMI\SerialScanning\Scan2\Story_Corps_A

TA: 6:56 PAT: O		5×2.5 mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0#	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On O#	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O#	SP3	Off
Load to stamp segments	Off Off	SP1	Off
Load images to graphic	Oli	SP7	Off
segments	0#	SP5	Off
Auto open inline display	Off	Dockioning goods	DEE
Start measurement without	On	Positioning mode	REF
further preparation	0#	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S-C-T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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	0.00 deg 0 %	Assume Silicone	Off
FoV read	192 mm		0.000 V
		? Ref. amplitude 1H	
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OL C. C.	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	281	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
	Off		On
Multiple series	OII	Temp. highpass filter Threshold	4.00
Resolution			
Base resolution	78	Paradigm size	20 Baseline
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
	Off	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
			Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
- Cystom		134/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

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Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\Story_Corps_B

TA: 8:42 PAT: Off		mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0#	HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On O#	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O#	SP3	Off
Load to stamp segments	Off Off	SP1	Off
Load images to graphic	Oli	SP7	Off
segments	Off	SP5	Off
Auto open inline display		Desitioning mode	DEE
Start measurement without	On	Positioning mode	REF
further preparation	Off	Table position	H
Wait for user to start		Table position MSMA	0 mm S - C - T
Start measurements	single		
Routine		Sagittal	R >> L
Slice group 1		— Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	Auto
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements		A >> P	192 mm
Con elements	HEA;HEP	F >> H	135 mm
Contrast			133 11111
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OF C. C.	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	354	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•	Oli	Threshold	4.00
Resolution		— Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
DAT d-	NI		Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	
Distortion Corr.	Off	Meas[7]	Baseline Baseline
		Meas[8]	Baseline Baseline
Prescan Normalize	Off	Magala	
Prescan Normalize Raw filter	Off On	Meas[9]	
Raw filter	On	Meas[10]	Baseline
Raw filter Elliptical filter	On Off	Meas[10] Meas[11]	Baseline Active
Raw filter Elliptical filter Hamming	On	Meas[10] Meas[11] Meas[12]	Baseline Active Active
Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13]	Baseline Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10]	Baseline Active Active Active Active
Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[10]	Baseline Active Active Active Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode Series	On Off Off Interleaved Interleaved	Meas[10]	Baseline Active Active Active Active Active Active Active
Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10]	Baseline Active Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\Story_Corps_C

TA: 7:01 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER:	cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	On	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	Oii	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	311	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	Sirigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	, tato oon oelect	
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
_	,	F >> H	135 mm
Contrast MTC	Off	Physio	
Magn. preparation	None [1st Signal/Mode	None
Flip angle	55 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	BOLD	
ι αι συρρι. ·····	1 at sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	284	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	78 100 %	Meas[1]	Baseline
Phase resolution Phase partial Fourier	Off	Meas[2]	Baseline
•		Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
	Off	Meas[9]	Baseline
Prescan Normalize			Baseline
Prescan Normalize Raw filter	On	Meas[10]	Daseille
Prescan Normalize Raw filter Elliptical filter	On Off	Meas[10] Meas[11]	Active
Prescan Normalize Raw filter	On		
Prescan Normalize Raw filter Elliptical filter Hamming	On Off	Meas[11]	Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[11] Meas[12]	Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[11] Meas[12] Meas[13]	Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[11] Meas[12] Meas[13] Meas[14]	Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\Story_Corps_D

TA: 7:54 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm		: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	GII	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
	Oil	SP7	Off
segments Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
	OII	Positioning mode Table position	H
further preparation Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Single	Sagittal	8 - C - 1 R -> L
Routine			
Slice group 1	_	Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	, 13.10
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
1	11273,1121	F >> H	135 mm
Contrast	I		
MTC	_	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	321	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
1	- · ·	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
	intelleaved	Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
0,00011			

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

_		
	Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
	EPI factor Gradient mode RF spoiling	78 Fast Off
	Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\Breathhold_CMRR

TA: 3:30 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER:	cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA	On O"
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S-C-T
	G	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1	57	Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
Orientation	T > C4.4	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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	10000145400
TR	1570 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3 Nana	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P F >> H	192 mm
Contrast		г >> П	143 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	129	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
·	Oil Oil	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
······································	/ (ato (Ot)	Meas[7]	Baseline
	Off	Meas[8]	Baseline
Distortion Corr.			Baseline
Prescan Normalize	Off	Measigi	
Prescan Normalize Raw filter	Off On	Meas[9] Meas[10]	
Prescan Normalize Raw filter Elliptical filter	On Off	Meas[10]	Baseline
Prescan Normalize Raw filter	On	Meas[10] Meas[11]	Baseline Active
Prescan Normalize Raw filter Elliptical filter Hamming	On Off	Meas[10] Meas[11] Meas[12]	Baseline Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13]	Baseline Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Active Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Baseline Active Active Active Active Active Active
Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	On Off Off	Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Active Active Active Active

Meas[19]ActiveMeas[20]ActiveMotion correctionOnInterpolation3D-K-spaceSpatial filterOff

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Scan2\BreathHold MGH

TA: 3:52 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER: ep	p2d_bold_sms_mgh_v22
Droportion		Body	On
Properties		- HEP	Off
Prio Recon	Off	HEA	Off
Before measurement		SP4	Off
After measurement	_	SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off		
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	Off	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigie	Sagittal	R >> L
Routine			
Slice group 1		- Coronal	A >> P
Slices	57	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
	0.00 deg	Confirm freq. adjustment	Off
Rotation			
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.5 mm	Adjust volume	
TR	1570 ms	Position	Isocenter
TE	40 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	192 mm
Filter	None	A >> P	192 mm
Coil elements	BC	F >> H	143 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	90 deg	1	
Fat suppr.	Fat sat.	BOLD	
· at suppr.		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	129	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
		Threshold	4.00
Resolution		- Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off		Baseline Baseline
Interpolation	Off	Meas[3]	
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
		Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
	Interlegued	- Meas[14]	Active
Multi-slice mode	Interleaved	Meas[14] Meas[15]	Active
Series	Interleaved		
Special sat.	None	Meas[16]	Active
	110110	Meas[17]	Active
System		Meas[18]	Active
		- 1/1//_	

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

•	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EDI to atom	70
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
1	
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00

\\USER\CMI\SerialScanning\Scan2\MSIT_ MGH

TA: 5:28 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USER: ep	o2d_bold_sms_mgh_v22
Properties		Body	On
Prio Recon	Off	- HEP	Off
Before measurement	On	HEA	Off
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
	On	SP6	Off
Auto store images	Off	SP3	Off
Load to stamp segments		SP1	Off
Load images to graphic	Off	SP7	Off
segments	0#	SP5	Off
Auto open inline display	Off	Docitioning models	DEE
Start measurement without	Off	Positioning mode	REF
further preparation	0#	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
Slice group 1		- Coronal	A >> P
Slices	57	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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	0.00 deg	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.5 mm	Adjust volume	Adio
TR	1570 ms	Position	Isocenter
TE	40 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	192 mm
Filter	None	A >> P	192 mm
Coil elements	BC	F >> H	143 mm
ı		l	1 10 111111
Contrast MTC	Off	Physio 1st Signal/Mode	None
Flip angle	90 deg	ļ	140110
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	190	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	- Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
		Meas[10]	Baseline
Elliptical filter	Off Off	Meas[11]	Active
Hamming	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special set	None	Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
		146/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

1	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00

	\\USER\CMI\SerialScannir	_	
TA: 5:06 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On Off	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1	57	Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
Orientation	T > C4.4	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	
Rotation	0.00 deg	Confirm freq. adjustn	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Toleranc	e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1570 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
	, , ,	F >> H	143 mm
Contrast			1 10 111111
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long torm	Dynamic t-maps	Off
	Long term		
Reconstruction Measurements	Magnitude	Starting ignore meas Ignore after transition	
	190		
Delay in TR	0 ms	Model transition state	
Multiple series	Off	Temp. highpass filter	
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	<u></u>	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distantian O		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
	Off	Meas[11]	Active
Elliptical filter			Active
Elliptical filter Hamming	Off	Meas[12]	Active
Hamming	Off	Meas[12] Meas[13]	
Hamming Geometry		Meas[13]	Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active Active
Hamming Geometry		Meas[13] Meas[14] Meas[15]	Active Active Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Introduction	Off
Bandwidth	2374 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Scan2\VAM_ MGH

TA: 6:39 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	· ·	o2d_bold_sms_mgh_v22
Proportion		Body	On
Properties	0"	. HEP	Off
Prio Recon	Off	HEA	Off
Before measurement		SP4	Off
After measurement	•	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	Off	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S-C-T
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	57	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.5 mm	Adjust volume	71010
TR	1570 ms	Position	Isocenter
TE	40 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	192 mm
Filter	None	A >> P	192 mm
Coil elements	BC	F >> H	143 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	90 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Averaging mode Reconstruction	Magnitude	Starting ignore meas	0
Measurements	235	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•	OII	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On Off	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
		150/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

•	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EDI fostor	70
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00
•	

\\USER\CMI\SerialScanning\Scan2\VAM_CMRR

TA: 6:17 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm		: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oil	HEA	On
		SP4	Off
After measurement	00	SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	57	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
Orientation	T > C4.4	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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1570 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
	,	F >> H	143 mm
Contrast		Dharaia	
MTC	=	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	235	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Waltiple Series	Oli	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	•	Baseline
Phase resolution	100 %	Meas[1]	
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	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
Hallining	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Introduction	Off
Bandwidth	2374 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Brain Localizer

TA: 0:26 P	AT: Off Voxel size: 1.4×1.0×	•	SIEMENS: gre
Dranautica		Phase resolution	75 %
Properties	0"	- Phase partial Fourier	Off
Prio Recon	Off	Interpolation	On
Before measurement			None
After measurement	On	PAT mode	None
Load to viewer	On Off	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Image Filter	Off
Auto store images	On O"	Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments		Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	On	Raw filter	Off
further preparation		Elliptical filter	On
Wait for user to start	On	Mode	Inplane
Start measurements	single		· · · · · · · · ·
Routine		Geometry	
Slice group 1		- Multi-slice mode	Sequential
Slices	3	Series	Interleaved
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	0.00 deg	System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
	o.oo deg	SP6	Off
Slice group 3 Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
	R >> L		
Phase enc. dir.		Positioning mode	REF
Rotation	0.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical	Shim mode	Tuno un
Opil alam it	filter		Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume	lagaantar
Fat suppr.	None	Position	Isocenter
Water suppr.	None	Orientation	Transversal
		Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	Physio	
Resolution		1st Signal/Mode	None
	256	Segments	1
Base resolution	256		•

Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	Off Off Off Off Off Off Off Off
MIP-Tra MIP-Time Save original images	Off Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts	On 2D Off Allowed 1
Bandwidth Flow comp.	290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\SerialScanning\Raiders\Motion Training

TA: 1:35 PAT: Off	Voxel size: 3.0×3.0×10.0 mm	Rel. SNR: 1.00 USER	R: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
	OII	HEA	Off
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	5g.5	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	9		
Dist. factor	100 %	Coil Combine Mode	Sum of Squares
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	0.00 deg 0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.00 mm	Adjust volume	
TR	130 ms	Position	Isocenter
TE	7.94 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	BC	A >> P	192 mm
Contrast		F >> H	170 mm
	0"	Dhysis	
MTC	Off	Physio Physio	Mara
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	700	Ignore after transition	0
		•	
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	64	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	5/8	Meas[2]	Baseline
•		Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	/ tato (O1)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On		Baseline
Elliptical filter	Off	Meas[10]	
Hamming	Off	Meas[11]	Active
		Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
	15	 	

Meas[19]ActiveMeas[20]ActiveMotion correctionOnInterpolation3D-K-spaceSpatial filterOff

•	
Introduction	Off
Bandwidth	2442 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
Gradient mode	Fast
RF spoiling	Off
Evoite pulse duration	2560 us
Excite pulse duration	Off
Single-band images	- ··
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Brain Localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:26

PAT: Off

Resolution	256	1st Signal/Mode Segments	None 1
Multiple series	Off	Physio	N.
Measurements Multiple series	1 Off	ļ.	500 mm
Reconstruction	Magnitude	F >> H	350 mm
Averaging mode	Short term	R >> L A >> P	350 mm 263 mm
		Rotation	0.00 deg
Water suppr.	None	Orientation	Transversal
Flip angle Fat suppr.	20 deg None	Position	Isocenter
Magn. preparation	None	Adjust volume	
MTC	Off	Adjustment Tolerance	Auto
TD	0 ms	? Ref. amplitude 1H	0.000 V
ontrast		Assume Silicone	Off
		Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Adjust with body coil	Off
. iitoi	filter	Shim mode	Tune up
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Default
Concatenations	9	Coil Combine Mode	Adaptive Combine
Averages	2.93 1115	Save uncombined	Off
TE	2.95 ms	Transversal	F >> H
TR	7.0 ms	Coronal	A >> P
Slice thickness	8.0 mm	Sagittal	R >> L
FoV phase	260 mm 100.0 %	MSMA	S - C - T
Phase oversampling FoV read	0 % 260 mm	Table position	0 mm
Rotation	0.00 deg	Table position	Н
Phase enc. dir.	R >> L	Positioning mode	REF
Orientation	Coronal		
Position	L0.0 A25.1 F0.7	SP5	Off
Dist. factor	300 %	SP7	Off
Slices	3	SP1	Off
Slice group 3	2	SP3	Off
Rotation	0.00 deg	SP6	Off
Phase enc. dir.	A >> P	SP8	Off
Orientation	Transversal	SP4 SP2	Off
Position	L0.0 A25.1 F0.7	SP4	Off
Dist. factor	300 %	HEA	On On
Slices	3	HEP	On
Slice group 2	2	Body	Off
Rotation	0.00 deg	System	
Phase enc. dir.	A >> P	Tim CT mode	Off
Orientation	Sagittal		
Position	L0.0 A25.1 F0.7	Special sat.	None
Dist. factor	300 %	Saturation mode	Standard
Slices	3		
Slice group 1		Series	Interleaved
outine		- Multi-slice mode	Sequential
	Salgio	Geometry	
Wait for user to start Start measurements	on single	Mode	Inplane
further preparation	On	Elliptical filter	On
Start measurement without	On	Raw filter	Off
Auto open inline display	Off	B1 filter	Off
segments	0"	Normalize	Off
Load images to graphic	Off	Prescan Normalize	On
Load to stamp segments	Off	Unfiltered images	Off
Auto store images	On	Distortion Corr.	Off
Inline movie	Off	Image Filter	Off
Load to viewer	On	Matrix Coil Mode	Auto (CP)
After measurement		PAT mode	None
Before measurement		Interpolation	On
	Off		_
operties Prio Recon		 Phase partial Fourier 	Off

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\SerialScanning\Raiders\Raiders_1

TA: 22:29 PAT: C	off Voxel size: 2.5×2.5×2.5 mr	_	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	3 11	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
· ·	Sirigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	······	
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		110110
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	924	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	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
Hamming	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special sat	None	Meas[16]	Active
Special sat.	INOTIC	Meas[17]	Active
System		Meas[18]	Active
		60/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Raiders_2

roperties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	OII	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
		SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	0"	SP5	Off
Auto open inline display	Off		—
Start measurement without	On	Positioning mode	FIX
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
outine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1 Slices	E 4	Transversal	F >> H
	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements		A >> P	192 mm
Coll elements	HEA;HEP	F >> H	
ontrast		г>>п	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OL C. C.	0"
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	829	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
osolution		Threshold	4.00
esolution	70	Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
DAT mode	None	Meas[4] Meas[5]	Baseline
PAT mode	None		Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
	Off	Meas[10]	Baseline
Elliptical filter		Meas[11]	Active
Hamming	Off	Meas[12]	Active
eometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
opediai sat.		I IVICASI I / I	ACIIVE

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Raiders_3

TA: 21:00 PAT: O	ff Voxel size: 2.5×2.	5×2.5 mm Rel. SNR: 1.00 USEI	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
		SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	FIX
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Douting		Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	rate
TR	1450 ms	Position	Isocenter
TE		Orientation	
	40.0 ms		Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F>> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OL C. C.	0"
			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	863	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Posalution		Threshold	4.00
Resolution	70	Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
DAT	Nama	Meas[5]	Baseline
PAT mode	None		Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
	Off	Meas[10]	Baseline
Elliptical filter		Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
System		164/±	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Raiders_4

		·	o.,,
Properties		Body	Off
Prio Recon	Off	HEP	On
	VII	HEA	On
Before measurement		SP4	Off
After measurement	On	SP2	Off
Load to viewer	On Off	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On O"	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	FIX
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	9.~	Sagittal	R >> L
Routine		——— Sagiitai ——— Coronal	R >> L A >> P
Slice group 1			
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
	-		•
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
JAPPI	гаі баі. 		Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	737	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Manple selles	VII	Threshold	4.00
tesolution			
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
		Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	, .a.o (O))	······ Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off		
Raw filter	On	Meas[9]	Baseline
Elliptical filter	Off	Meas[10]	Baseline
•		Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
		Meas[15]	Active
Series	Interleaved	Meas[15]	Active
Special sat.	None		
		Meas[17]	Active
-1		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Raiders_5

TA: 17:46 PAT: O	ff Voxel size: 2.5×2.	5×2.5 mm Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	Oli	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	FIX
further preparation	On	Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigle		R >> L
Routine		Sagittal Coronal	K >> L A >> P
Slice group 1			,
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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	0.00 dog 0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	Auto
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements		A >> P	192 mm
Con elements	HEA;HEP	F >> H	135 mm
Contrast			133 11111
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	OLM OL C. C.	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	729	Ignore after transition	0
	0 ms	Model transition states	On
Delay in TR	Off		On
Multiple series	Oli	Temp. highpass filter Threshold	4.00
Resolution			
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	····· Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
	Off	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Oll	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
			Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
узівін		168/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

<u>'</u>	
Introduction	Off
Bandwidth	2374 Hz/Px
Flow comp.	No Off
Free echo spacing Echo spacing	0.55 ms
	0.00 1115
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\Raiders_6

TA: 13:02 PAT: O	ff Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oii	HEA	On
		SP4	Off
After measurement Load to viewer	On	SP2	Off
		SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	FIX
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Douting	-	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	, 1010
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor		Rotation	
	3 Nana		0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 dea		
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	533	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off		Baseline
Interpolation	Off	Meas[3]	
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
		Meas[9]	Baseline
Raw filter	On O#	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Coomony	Interlegued	Meas[14]	Active
Multi clica mada			
Multi-slice mode	Interleaved	Meas[15]	Active
Multi-slice mode Series	Interleaved	Meas[15] Meas[16]	Active Active
Series	Interleaved	Meas[16]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Raiders\Field Map

Rel. SNR: 1.00

Voxel size: 3.0×3.0×3.0 mm

TA: 1:05

Special sat.

None

SIEMENS: gre_field_mapping

TA. 1.05	70xei 5ize. 5.0x5.0x5.0	II Rei. SINN. 1.00 SIEIMEINS.	gre_neid_mapping
Properties		System	
Prio Recon	Off	Body	Off
Before measurement	.	HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
	On	SP8	Off
Auto store images			
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments	0"	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	FIX
Wait for user to start	Off	Table position	Н
Start measurements	single	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1	40	Sagittal	R >> L
Slices	42	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Obias as a da	0
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	3.0 mm	Assume Silicone	Off
TR	492 ms	? Ref. amplitude 1H	0.000 V
TE 1	3.28 ms	Adjustment Tolerance	Auto
TE 2	8.04 ms	Adjust volume	
		Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	126 mm
MTC	Off		120 11111
Flip angle	90 deg	Sequence	
	•	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Short term	Asymmetric echo	Allowed
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
•	OII		
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
Phase partial Fourier	Off	•	
Interpolation	Off		
Matrix Coil Mode	Auto (CD)		
	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
•	-		
Geometry Multi-slice mode	Interleaved		
Series	Interleaved		

\\USER\CMI\SerialScanning\Raiders\HCP_Working Memory

TA: 5:12 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Dranartica		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off		
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigle		R >> L
Routine		Sagittal	
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
ı	,	F >> H	135 mm
Contrast	I		
MTC		Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
A			
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	209	Ignore after transition	0
Delay in TR	0 ms	Model transition states	
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
		Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off		Baseline
Raw filter	On	Meas[9]	
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
Hallining	U	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
-,5.5			

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Raiders\HCP_Gambling

TA: 3:23 PAT: Off	· ·	n Rel. SNR: 1.00 USER	: cmrr_mbep2d_bold
Properties		Body	Off
	Off	HEP	On
Prio Recon	Oil	HEA	On
Before measurement		SP4	Off
After measurement	0	SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
I	<u>-</u>	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1	_	Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %		•
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
i at suppi.	1 at 3at.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	134	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %		Baseline
Phase partial Fourier	Off	Meas[2]	
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Co	O#	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
	O#		Active
Hamming	Off	I Measi IZI	
Hamming	OII	Meas[12] Meas[13]	
Hamming Geometry		Meas[13]	Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14]	Active Active
Hamming Geometry		Meas[13] Meas[14] Meas[15]	Active Active Active
Hamming Geometry Multi-slice mode Series	Interleaved Interleaved	Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active
Hamming Geometry Multi-slice mode	Interleaved	Meas[13] Meas[14] Meas[15]	Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\HCP_Motor

Properties Body Off Prio Recon Off HEPP On Before measurement Control (March 1997) HEPP On Load to viewer On SP8 Off Auto store images On SP8 Off Load images to graphic Off SP6 Off Load images to graphic Off SP7 Off Sp7 Off SP7 Off Auto open inline display Off SP7 Off Sart measurements Off SP7 Off Sart measurements Off SP7 Off Start measurements Off Table position H Routine Coronal A > P Table position H Routine S 54 Coli Combine Mode SC - T Sagittal R C - T Slice group 1 Silce group 1 Silce group 1 Sagittal R S > P Coronal A > P Transversal Phase one-diff. A > P Coronal <th>TA: 3:45 PAT: Of</th> <th>ff Voxel size: 2.5×2.5×2.5 mm</th> <th></th> <th>cmrr_mbep2d_bold</th>	TA: 3:45 PAT: Of	ff Voxel size: 2.5×2.5×2.5 mm		cmrr_mbep2d_bold
Prio Recon Before measurement After Mann	Properties			
Before measurement		Off		
After measurement SPA		OII		_
Laad to viewer				_
Inline movie		On		
Auto store images			SP8	Off
Load to stamp segments			SP6	Off
Load images to graphic segments Auto open inline display Off SP7 Off SP5 Off Off SP5 Off SP5 Off SP5 Off SP5 Off SP5 Off Off SP5 Off SP5 Off			SP3	Off
Segments			SP1	Off
Auto Open inline display		Off	SP7	Off
Auto Open Inline display Start measurement without further preparation				Off
Further preparation Wait for user to start Single Solid S				
Wait for user to start Off Start measurements Single MSMA S - C - T		On		
Start measurements				Н
Routine		Off		-
Silice group 1	Start measurements	single		S - C - T
Silice group 1 Silices S4 Dist. factor 0 % Position Isocenter Orientation Transversal Shim mode Standard A/S ≠ P Auto Coil Select Default Auto Coil Confirm freq. adjustment Doff Adjust with body coil Off Assume Silicone Auto Adjust volume Position Isocenter Default Auto Adjust volume Desiun Auto Adjust volume Position Isocenter Desiun Assume Silicone Auto Adjust volume Desiun Auto Adjust volume Auto Adjust volume Desiun Auto Auto Adjust volume Desiun Assume Silicone Auto Auto Adjust volume Desiun Auto Auto Auto Adjust volume Desiun Assume Silicone Auto Auto Auto Adjust volume Assume Silicone Auto Au	Pouting		Sagittal	R >> L
Silices 54		_	Coronal	A >> P
Silces 54 Dist. factor 0 % Position Isocenter		54	Transversal	F >> H
Dest. tector			Coil Combine Mode	
Position Socenter				
Phase enc. dir. A >> P	Position	Isocenter		
Rotation	Orientation	Transversal		
Phase oversampling	Phase enc. dir.	A >> P	Adjust with body coil	Off
FoV read	Rotation	0.00 deg	Confirm freq. adjustment	Off
FoV read	Phase oversampling	0 %	Assume Silicone	Off
FoV phase		192 mm	? Ref. amplitude 1H	0.000 V
Slice thickness 1450 ms				
TR	II			
TE				Isocenter
Multi-band accel. factor Filter None R >> L 192 mm Coil elements HEA;HEP A >> P 192 mm Contrast F> H 135 mm MTC Off Physio Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD Starling ignore Off Averaging mode Long term BOLD GLM Statistics Off Averaging mode Long term Delay in TR O ms Model transition states O Measurements 149 Ignore after transition O O Multiple series Off Temp. highpass filter On Multiple series Off Temp. highpass filter On Threshold 4.00 Paradigm size 20 Messolution Mess resolution Mess[1] Baseline Phase resolution 100 % Mess[2] Baseline Phase partial Fourier Off Mess[3] Baseline Interpolation Off				
Filter	_			
Coil elements HEA;HEP A >> P 192 mm Contrast F >> H 135 mm MTC Off Physio Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD 1st Signal/Mode None Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Delay in Tamps Off Measurements 149 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas(1) Baseline Meas(2) Baseline Phase resolution 78 Meas(3) Baseline Phase partial Fourier Off Meas(3) Baseline Interpolation Off Meas(3) Baseline Matrix Coil Mode Auto (CP) Meas(3) Baseline Matrix Coil Mode Auto (CP) </td <td></td> <td></td> <td></td> <td></td>				
Contrast F >> H 135 mm MTC MTC Off Physio Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 149 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Paradigm size 20 Paradigm size 20 Paradigm size 20 Paradigm size 20 Meas[1] Baseline Meas[2] Baseline Meas[2] Baseline Interpolation Off Meas[3] Baseline Matrix Coil Mode Auto (CP) Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6]				
Contrast MTC Off Physio Magn. preparation None 1st Signal/Mode None Filip angle 55 deg BOLD Fat suppr. Fat sat. BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 149 Ignore after transition 0 Meliple series Off Temp. highpass filter On Multiple series Off Temp. highpass filter On Resolution 78 Meas[1] Baseline Phase resolution 100 % Meas[2] Baseline Phase partial Fourier Off Meas[3] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Matrix Coil Mode Auto (CP) Meas[7] Baseline Prescan Normalize Off	Coll elements	HEA;HEP		
Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD Fat suppr. Fat sat. BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 149 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. hispass filter On Resolution 78 Temp. hispass filter On Phase resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline Mark Coil Mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[5] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Meas[11]	Contrast		F >> H	135 mm
Magn. preparation None 1st Signal/Mode None Flip angle 55 deg BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 149 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Temp. highpass filter On Phase resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[7] Baseline Meas[9]	MTC	Off	Physio	
Filip angle	Magn, preparation	None	1st Signal/Mode	None
Fat suppr. Fat sat. SOLD		55 dea	-	
Averaging mode				
Reconstruction Magnitude Measurements 149 Ignore after transition 0 O D D D D D D D D D		1 at out.	GLM Statistics	Off
Measurements 149 Delay in TR 0 ms Multiple series Off Resolution 78 Phase resolution 100 % Phase partial Fourier Interpolation Off PAT mode Matrix Coil Mode None Auto (CP) Distortion Corr. Off Prescan Normalize Raw filter On Prescan Normalize Off Meas[0] Raw filter On Elliptical filter Off Hamming Off Multi-slice mode Series Interleaved Series Interleaved Special sat. None Ignore after transition O Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active <t< td=""><td>Averaging mode</td><td>Long term</td><td>Dynamic t-maps</td><td>Off</td></t<>	Averaging mode	Long term	Dynamic t-maps	Off
Delay in TR	Reconstruction	Magnitude	Starting ignore meas	0
Delay in TR	Measurements	149	Ignore after transition	0
Multiple series Off Resolution Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[3] Baseline Meas[4] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[16] Active Meas[16] Active Meas[16] Active Meas[16] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Active	Delay in TR	0 ms		On
Resolution		Off	Temp, highpass filter	On
Base resolution 78 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Meas[4] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[8] Baseline Meas[9] Baseline Meas[1] Meas[1] Baseline	1			_
Base resolution 78 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Meas[5] 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 Meas[13] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Meas[18] Active Meas[18] Meas[18] Active				
Phase resolution 100 % Phase partial Fourier Off Interpolation Off Meas[3] Baseline Meas[4] Baseline Meas[4] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Active			•	
Prase partial Fourier	Phase resolution	100 %		
Interpolation Off Meas[4] Baseline PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) 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 Meas[13] Active Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active Meas[17] Active Meas[17] Active	Phase partial Fourier	Off		
PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[9] Baseline Elliptical filter Off Meas[10] Baseline Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active Meas[17] Active Meas[18] Meas[18] Active Meas[18] Meas[18] Active Meas[18] Meas[18] Active		Off		
Matrix Coil ModeAuto (CP)Meas[6]BaselineDistortion Corr.OffMeas[7]BaselinePrescan NormalizeOffMeas[8]BaselineRaw filterOnMeas[9]BaselineElliptical filterOffMeas[10]BaselineHammingOffMeas[11]ActiveGeometryMeas[12]ActiveMulti-slice modeInterleavedMeas[13]ActiveSeriesInterleavedMeas[14]ActiveSpecial sat.NoneMeas[17]Active				
Distortion Corr. Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Meas[14] Active Special sat. None Meas[17] Active Meas[17] Active Meas[18] Meas[10] Baseline Meas[10] Baseline Meas[10] Baseline Meas[10] Baseline Meas[11] Active Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[17] Active				
Distortion Corr.	Matrix Coil Mode	Auto (CP)		
Prescan Normalize Off Raw filter On Meas[9] Baseline Elliptical filter Off Meas[10] Baseline Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[13] Active Meas[14] Active Special sat. None Meas[17] Active Meas[17] Active	Distortion Corr	Off		
Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active				
Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active			Meas[9]	Baseline
Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Active Meas[18] Active Meas[18] Active			Meas[10]	Baseline
Geometry Multi-slice mode Interleaved Meas[13] Active Series Interleaved Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active			Meas[11]	Active
Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active Meas[17] Active	Hamming	Off		Active
Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[16] Active Meas[17] Active Meas[18] Active	Geometry			
Series		Interleaved		
Special sat. None Meas[16] Meas[17] Meas[17] Active Macs[48] Active				
Special sat. None Meas[17] Active	OCI169	interieaveu		
Macel 191 Active	Special sat.	None		
O (INDOCUE) INDOCUES INDOCUES	1	-	Meas[18]	Active
System Meas[18] Active	System			ACTIVE

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth	Off 2374 Hz/Px No
Flow comp. Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\SerialScanning\Raiders\HCP_Language

TA: 4:08 PAT: Of		×2.5 mm Rel. SNR: 1.00 USEF	R: cmrr_mbep2d_bold
Properties		Body	Off
•	0"	HEP	On
Prio Recon Before measurement	Off	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
	On	SP6	Off
Auto store images	Off	SP3	Off
Load to stamp segments Load images to graphic	Off	SP1	Off
segments	Oli	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
	On	Table position	H
further preparation Wait for user to start	Off	Table position	0 mm
		MSMA	S - C - T
Start measurements	single		8 -> L
Routine		Sagittal Coronal	R >> L A >> P
Slice group 1			
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
	11273,1121	F>> H	135 mm
Contrast	~"	· '	
MTC	Off	Physio	N.
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	165	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
·····	, tato (61)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[10]	Active
Hamming	Off	Meas[11]	Active
Geometry		Meas[12]	Active
Geometry Multiplica mode	Interleased	Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[17]	Active
· ·		Meas[17]	Active
System		•	, 101170
		179/∔	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\SerialScanning\Raiders\HCP_Social_Cog

TA: 3:38 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oli	HEA	On
		SP4	Off
After measurement	0.5	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
I	5g.5	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54		
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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	0.00 deg 0 %	Assume Silicone	Off
1			
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
	0"	Dhysis	
MTC		Physio (Mark)	N
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
	144		0
Measurements		Ignore after transition	
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
		Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
	Auto (OI)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off		Baseline
Raw filter	On	Meas[9]	
Elliptical filter	Off	Meas[10]	Baseline
Hamming	Off	Meas[11]	Active
Training	OII	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
System	I	1/ ₊	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Raiders\HCP_Relational Processing

TA: 3:07 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Duamantia		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On		
Load to stamp segments	Off	SP3	Off Off
Load images to graphic	Off	SP1	Off
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	Oli	Table position	H
Wait for user to start	Off	Table position	0 mm
		MSMA	S - C - T
Start measurements	single		
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
		Auto Coil Select	Default
Position	Isocenter	Chim made	Ctondord
Orientation	Transversal	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustme	
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Con elements	HEA,HEF	F >> H	135 mm
Contrast		Г >> П	133 111111
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 dea	•	
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	123	Ignore after transition	0
Delay in TR	0 ms	Model transition states	s On
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off		
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Geometry Multi plice mode	Interlegued	Meas[14]	Active
Multi-slice mode	Interleaved		Active
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	
•		Meas[17]	Active
System		Meas[18]	Active
	18	3/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\SerialScanning\Raiders\HCP_Emotional Processing

TA: 2:26 PAT: Of	f Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
Dranartica		Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement		SP2	Off
Load to viewer	On	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments			
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation		Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Siligie	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1			
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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. adjustme	
Phase oversampling	0.00 deg 0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None [1st Signal/Mode	None
Flip angle	55 deg	13t Signal/Mode	None
	Fat sat.	BOLD	
Fat suppr.	Fai Sai.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	95	Ignore after transition	0
Delay in TR	0 ms	Model transition states	
Multiple series	Off	Temp. highpass filter	On
•		Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off		
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr.	Off	Meas[7]	Baseline
Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
		Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
System	100	5/+	
	184	7/ +	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\PhantomScanning\phannie_quant\localizer Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

TA: 0:26

PAT: Off

SIEMENS: gre

Resolution	256	1st Signal/Mode Segments	None 1
Multiple series	Oil	Physio	N
Measurements Multiple series	1 Off	ļ	300 11111
Reconstruction	Magnitude	F >> H	350 mm
Averaging mode	Short term	R >> L A >> P	350 mm 263 mm
		Rotation	0.00 deg
Water suppr.	None	Orientation	Transversal
Flip angle Fat suppr.	20 deg None	Position	Isocenter
Magn. preparation	None	Adjust volume	
MTC	Off	Adjustment Tolerance	Auto
TD	0 ms	? Ref. amplitude 1H	0.000 V
ontrast		Assume Silicone	Off
	- 7	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Adjust with body coil	Off
i iitoi	filter	Shim mode	Tune up
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Default
Averages Concatenations	9	Coil Combine Mode	Adaptive Combine
	2.95 ms 2	Save uncombined	Off
TE	7.0 ms 2.95 ms	Transversal	F >> H
Slice thickness TR	8.0 mm 7.0 ms	Coronal	A >> P
FoV phase	100.0 %	Sagittal	R >> L
FoV read	260 mm	MSMA	S - C - T
Phase oversampling	0 %	Table position	0 mm
Rotation	0.00 deg	Table position	Н
Phase enc. dir.	R >> L	Positioning mode	REF
Orientation	Coronal	SP5	UII
Position	Isocenter	SP7	Off Off
Dist. factor	300 %	SP1	Off
Slices	3	SP3	Off Off
Slice group 3		SP6	Off Off
Rotation	0.00 deg	SP8	Off
Phase enc. dir.	A >> P	SP2	Off
Orientation	Transversal	SP4	Off
Position	Isocenter	HEA	On Off
Dist. factor	300 %	HEP	On
Slices	3	Body	Off
Slice group 2		System	O#
Rotation	0.00 deg	System	
Phase enc. dir.	A >> P	Tim CT mode	Off
Orientation	Sagittal		
Position	Isocenter	Special sat.	None
Dist. factor	300 %	Saturation mode	Standard
Slices	3		
Slice group 1		Series	Interleaved
outine		- Multi-slice mode	Sequential
	3	Geometry	
Start measurements	single	Mode	Inplane
Wait for user to start	Off	Elliptical filter	On
Start measurement without further preparation	Off	Raw filter	Off
Auto open inline display		B1 filter	Off
segments	Off	Normalize	Off
Load images to graphic	Off	Prescan Normalize	On
Load to stamp segments	Off	Unfiltered images	Off
Auto store images	On O"	Distortion Corr.	Off
Inline movie	Off	Image Filter	Off
Load to viewer	On	Matrix Coil Mode	Auto (CP)
After measurement		PAT mode	None
Before measurement		Interpolation	On
	Off		0
operties Prio Recon		 Phase partial Fourier 	Off

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\PhantomScanning\phannie_quant\Despot 1 -SAG

TA: 5:49	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER: d	despot1_baby
Properties		B1 filter	Off
	0#	Raw filter	On
Prio Recon Before measurement	Off	Intensity	Weak
		Slope	25
After measurement	On	Elliptical filter	Off
Load to viewer	On O#	Goomotry	
Inline movie	Off	Geometry	0
Auto store images	On	Multi-slice mode	Sequential
Load to stamp segments	On Off	Series	Ascending
Load images to graphic	Off	System	
segments	0"	Body	Off
Auto open inline display	Off	HEP	On
Start measurement without	On	HEA	On
further preparation	a.,	SP4	Off
Wait for user to start	Off	SP2	Off
Start measurements	single	SP8	Off
Routine		SP6	Off
Slab group 1		SP3	Off
Slabs	1	SP1	Off
Dist. factor	20 %	SP7	Off
Position	20 % L0.0 A11.3 F1.3	SP5	Off
		575	OII
Orientation	S > T-2.0	Positioning mode	REF
Phase enc. dir.	A >> P	Table position	Н
Rotation	0.00 deg	Table position	0 mm
Phase oversampling	0 %	MSMA	S - C - T
Slice oversampling	0.0 %	Sagittal	R >> L
Slices per slab	112	Coronal	A >> P
FoV read	220 mm	Transversal	F >> H
FoV phase	100.0 %	Save uncombined	Off
Slice thickness	1.80 mm	Coil Combine Mode	Adaptive Combine
TR	5.2 ms	Auto Coil Select	Default
TE	2.4 ms	Auto Coli Select	Delault
Averages	1	Shim mode	Tune up
Concatenations	1	Adjust with body coil	Off
Filter	Raw filter	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
Contract		? Ref. amplitude 1H	0.000 V
Contrast	40 days	Adjustment Tolerance	Auto
Flip angle	16 deg	Adjust volume	
Averaging mode	Short term	Position	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	8	Rotation	0.00 deg
Pause after meas. 1	0.0 s	R >> L	350 mm
Pause after meas. 2	0.0 s	A >> P	263 mm
Pause after meas. 3	0.0 s	F >> H	350 mm
Pause after meas. 4	0.0 s	ı	
Pause after meas. 5	0.0 s	Physio	
Pause after meas. 6	0.0 s	1st Signal/Mode	None
Pause after meas. 7	0.0 s	Inline	
Multiple series	Off		Off
•	OII	Subtract	Off
Resolution		Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Cor	Off
Phase resolution	95 %	Std-Dev-Tra	Off
Slice resolution	89 %	Std-Dev-Time	Off
Phase partial Fourier	6/8	MIP-Sag	Off Off
Slice partial Fourier	7/8	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
		MIP-Time	Off
Matrix Coil Mode	Auto (CP)	Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Dimension	3D
Normalize	Off	Elliptical scanning	On
INUITIANZE	OII	Lilipudai scariiliig	OII

Contrasts Bandwidth	1 350 Hz/Px
RF pulse type Gradient mode RF spoiling	Low SAR Fast On
IR Mode Dummy pulses Incremented FA Mode mcDESPOT FA Mode Number of FA Increments RF pulse duration RF pulse TBW	Off 300 On On 8 0.8 ms 3.0
RF Spoil Increment Gradient Spoiler Factor Baby Mode	37.8 deg 0.3 Off

\\USER\CMI\\PhantomScanning\\phannie_quant\IR SPGR -SAG

TA: 1:02	Voxel size: 1.7×1.7×3.6 mm	n Rel. SNR: 1.00 USER:	despot1_baby
Properties		Series	Ascending
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement		HEP	On
Load to viewer	On	HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	On	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	Off	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Desitioning mode	FIV
Start measurements	single	Positioning mode	FIX
Routine		Table position	H 0 mm
		Table position MSMA	0 mm S - C - T
Slab group 1 Slabs	1		S-C-1 R>>L
	1 20 %	Sagittal Coronal	R >> L A >> P
Dist. factor			A >> P F >> H
Position Orientation	L0.0 A11.3 F1.3 S > T-2.0	Transversal Save uncombined	F >> H Off
Orientation	S > 1-2.0 A >> P	Coil Combine Mode	
Phase enc. dir. Rotation	A >> P 0.00 deg	Auto Coil Select	Adaptive Combine Default
		Auto Coli Select	Default
Phase oversampling	0 %	Shim mode	Tune up
Slice oversampling	0.0 % 56	Adjust with body coil	Off
Slices per slab FoV read	220 mm	Confirm freq. adjustment	Off
	-	Assume Silicone	Off
FoV phase Slice thickness	100.0 % 3.60 mm	? Ref. amplitude 1H	0.000 V
TR		Adjustment Tolerance	Auto
TE	5.3 ms	Adjust volume	
	2.4 ms	Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations Filter	Raw filter	Rotation	0.00 deg
		R >> L	350 mm
Coil elements	HEA;HEP	A >> P	263 mm
Contrast		_ F >> H	350 mm
Flip angle	5 deg	Physio	
Averaging mode	Short term	1st Signal/Mode	None
Reconstruction	Magnitude	1	
Measurements	1	Inline	
Multiple series	Off	Subtract	Off
•		Std-Dev-Sag	Off
Resolution	100	Std-Dev-Cor	Off
Base resolution	128	Std-Dev-Tra	Off
Phase resolution	100 %	Std-Dev-Time	Off
Slice resolution	100 %	MIP-Sag	Off
Phase partial Fourier	Off	MIP-Cor	Off
Slice partial Fourier	6/8	MIP-Tra	Off
Interpolation	Off	MIP-Time	Off
Matrix Coil Mode	Auto (CP)	Save original images	On
Image Filter	Off	Sequence	Off
Distortion Corr.	Off	Introduction	Off 3D
Prescan Normalize	Off	Dimension Elliptical scapping	
Normalize	Off	Elliptical scanning	On 1
B1 filter	Off	Contrasts	1 350 Hz/Dy
Raw filter	On	Bandwidth	350 Hz/Px
Intensity	Weak	RF pulse type	Low SAR
Slope	25	Gradient mode	Fast
Elliptical filter	Off	RF spoiling	On
·			On
Geometry Multiplies made	Seguential	IR Mode	On 400 mg
Multi-slice mode	Sequential	Inversion time	400 ms

RF pulse duration 0.8 ms
RF pulse TBW 3.0
RF Spoil Increment 37.8 deg
Gradient Spoiler Factor 0.3
Baby Mode Off

\\USER\CMI\PhantomScanning\phannie_quant\Despot 2 -SAG

TA: 10:04	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER:	despot2_baby2
Properties		Slice partial Fourier	7/8
Prio Recon	Off	Interpolation	Off
Before measurement	Oli	Matrix Coil Mode	Auto (CP)
After measurement			······
Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	On	Normalize	Off
Load images to graphic	Off	B1 filter	Off
segments		Raw filter	On Markings
Auto open inline display	Off	Intensity	Medium
Start measurement without	On	Slope	48 Off
further preparation		Elliptical filter	Oli
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
outine		Series	Ascending
Slab group 1		System	-
Slabs	1		Off
Dist. factor	20 %	Body HEP	On
Position	L0.0 A11.3 F1.3	HEA	On On
Orientation	S > T-2.0	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Phase oversampling	0 %	SP6	Off
Slice oversampling	0.0 %	SP3	Off
Slices per slab	112	SP1	Off
FoV read	220 mm	SP7	Off
FoV phase	100.0 %	SP5	Off
Slice thickness	1.80 mm		OII
TR	5.40 ms	Positioning mode	FIX
TE	2.700 ms	Table position	Н
Averages	1	Table position	0 mm
Concatenations	1	MSMA	S - C - T
Filter	Raw filter	Sagittal	R >> L
Coil elements	HEA;HEP	Coronal	A >> P
		Transversal	F >> H
Contrast		Save uncombined	Off
Flip angle	60 deg	Coil Combine Mode	Adaptive Combine
Averaging mode	Short term	Auto Coil Select	Default
Reconstruction	Magnitude	Shim mode	Tune up
Measurements	16	Adjust with body coil	Off
Pause after meas. 1	0.0 s	Confirm freq. adjustment	Off
Pause after meas. 2	0.0 s	Assume Silicone	Off
Pause after meas. 3	0.0 s	? Ref. amplitude 1H	0.000 V
Pause after meas. 4	0.0 s	Adjustment Tolerance	Auto
Pause after meas. 5	0.0 s	Adjust volume	71010
Pause after meas. 6	0.0 s	Position	Isocenter
Pause after meas. 7	0.0 s	Orientation	Transversal
Pause after meas. 8	0.0 s	Rotation	0.00 deg
Pause after meas. 9	0.0 s	R >> L	350 mm
Pause after meas. 10	0.0 s	A >> P	263 mm
Pause after meas. 11	0.0 s	F >> H	350 mm
Pause after meas. 12	0.0 s	I	300
Pause after meas. 13	0.0 s	Physio	
Pause after meas. 14	0.0 s	1st Signal/Mode	None
Pause after meas. 15	0.0 s	Inline	
Multiple series	Off	Subtract	Off
•			Off
esolution		Std-Dev-Sag Std-Dev-Cor	Off
Base resolution	128	Std-Dev-Cor Std-Dev-Tra	Off
Phase resolution	95 %	Std-Dev-Tra Std-Dev-Time	
Slice resolution	89 %	MIP-Sag	Off Off
Phase partial Fourier	5/8		

MIP-Tra MIP-Time Save original images	Off Off On
Sequence	On
Introduction	Off
Dimension	3D

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Contrasts	1
Bandwidth	350 Hz/Px
DE pulso typo	Low SAR
RF pulse type	
Gradient mode	Fast
RF spoiling	Off
IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off

\\USER\CMI\PhantomScanning\phannie_quant\MT OFF -SAG PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 SIEM

TA: 7:53

SIEMENS: gre

·		Normalize	Off
roperties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement		Elliptical filter	Off
After measurement		Limptical inter	Oll
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On	0-1	Ot
Load images to graphic	Off	Saturation mode	Standard
segments		Special sat.	None
Auto open inline display	Off		
Start measurement without	On	Tim CT mode	Off
further preparation		System	
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
	5g.e	HEA	On
outine		SP4	Off
Slab group 1		SP4 SP2	Off
Slabs	1		_
Dist. factor	20 %	SP8	Off Off
Position	L0.0 A13.8 F6.3	SP6	Off
Orientation	S > T-2.4	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	208	Table position	H
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1		
Filter	None	Coil Combine Mode	Adaptive Combine
Coil elements	HEA;HEP	Auto Coil Select	Default
	1127 (,1121	Shim mode	Tune up
ontrast		Adjust with body coil	Off
MTC	Off	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	
Averaging	Chart tar-	Position	Isocenter
Averaging mode	Short term	Orientation	Transversal
Reconstruction	Magnitude	Rotation	0.00 deg
Measurements	To all the second	R >> L	350 mm
Multiple series	Each measurement	A >> P	263 mm
esolution		F >> H	350 mm
Base resolution	256	 1	550 11111
Phase resolution	100 %	Physio	
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	6/8	Segments	1
Slice partial Fourier	6/8		Niese
	Off	Tagging	None
Interpolation	OII	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2		U
Ref. lines PE	32	Inline	
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\PhantomScanning\phannie_quant\MT ON -SAG

Properties Prio Recon	
Prio Recon Off Before measurement After measurement Load to viewer Inline movie Auto store images Load images to graphic off Start measurement without further preparation Wait for user to start Start measurements Slabs group 1 Slabs Dist. factor Prio Recon Off Before measurement After measurement Elliptical filter Off Raw filter Off Seemetry Multi-slice mode Interleaved Series Interleaved Series Interleaved Standard Special sat. None Standard Special sat. None System Body Off HEP On HEA On SP4 Off SP2 Off SP2 Off SP8 Off Off SP8 Off	
Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Con Load to stamp segments Auto open inline display Start measurement without Fatr measurement without Start measurements Wait for user to start Start measurements Slabs	
After measurement Load to viewer Inline movie Auto store images Con Load to stamp segments Coff Auto open inline display Start measurement without further preparation Wait for user to start Slabs Dist. factor After measurement Off Geometry Multi-slice mode Series Interleaved Series Saturation mode Standard Special sat. None Saturation mode Standard Special sat. None System Wait for user to start Special sat. Off System Body Off HEP On HEA On SP4 Off SP2 Off SP8 OFF OFF SP8 OFF ON SP8 OFF OFF OFF SP8 OFF SP8 OFF SP8 OFF OFF SP8 O	
Load to viewer On Geometry Inline movie Off Multi-slice mode Interleaved Auto store images On Series Interleaved Load to stamp segments On Load images to graphic Off Segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Start measurements single Routine Segmenty Multi-slice mode Interleaved Series Interleaved Saturation mode Standard Special sat. None Saturation mode Standard None System System Body Off HEP On HEA On SP4 Off SP4 Off SP2 Off SP8 Off SP8 Off SP8 Off	
Inline movie Auto store images Con Load to stamp segments Con Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Single Routine Silab group 1 Slabs Dist. factor Off Auto stamp segments On Saturation mode Standard Special sat. None Start measurement without On Fim CT mode Off System System Body HEP On HEA On SP4 Off SP2 Off SP8 Off S	
Auto store images On Load to stamp segments On Load images to graphic Off segments Auto open inline display Off Start measurement without further preparation Wait for user to start Off Start measurements single Routine Series Interleaved Saturation mode Standard None Special sat. None Tim CT mode Off System Body Off HEP On HEA On SP4 Off SP2 Off SP2 Off SP8 Off SP8 Off SP8 Off SP8 Off	
Load to stamp segments On Load images to graphic Off segments Auto open inline display Off Start measurement without on further preparation Wait for user to start Off Start measurements single Routine Slab group 1 Slabs Dist. factor Saturation mode Standard None System Tim CT mode Off Body HEP On HEA On SP4 SP2 Off SP8 OFF STANDARD Standard None Special sat. None	
Load images to graphic Off Saturation mode Standard Special sat. None	
Load images to graphic segments Auto open inline display Off Start measurement without On further preparation Wait for user to start Off Start measurements single Routine Slab group 1 Slabs Dist. factor Special sat. None Special sat. None Special sat. None System Wait CT mode Off Body HEP On HEA On SP4 Off SP2 Off SP2 Off SP8 Off SP8 Off SP8 Off	
Auto open inline display Off Start measurement without On further preparation Wait for user to start Off Start measurements single Routine Slab group 1 Slabs Dist. factor Auto open inline display Off Tim CT mode Off Body HEP On HEA On SP4 Off SP2 Off SP8 Off	
Start measurement without further preparation On Tim CT mode Off Wait for user to start Start measurements Off Body Off Start measurements Single HEP On Routine HEA On Slab group 1 SP4 Off Slabs 1 SP2 Off Dist. factor 20 % SP8 Off	
Start measurement without Off System	
Wait for user to start Off Body Off Start measurements single HEP On Routine HEA On Slab group 1 SP4 Off Slabs 1 SP2 Off Dist. factor 20 % SP8 Off	
Start measurements Single HEP On	
Routine	
Slab group 1 SP4 Off Slabs	
Slab group 1 SP4 Off SP2 Off SP2 Off SP8 Off S	
Slabs 1 SP2 Off SP8 Of	
Dist. factor 20 % SP8 Off	
Position L0.0 A13.8 F6.3 SP6 Off	
Orientation S > T-2.4 SP3 Off	
Phase enc. dir. A >> P SP1 Off	
Rotation 0.00 deg SP7 Off	
Phase oversampling 0 % SP5 Off	
Toolstoring mode 1777	
Table position	
Table position 0 min	
On this is	
TD Cagittal 17.72	
TR 30 ms Coronal A >> P	
TE 11.00 ms Transversal F >> H	
Averages 1 Save uncombined Off	
Concatenations 1 Coil Combine Mode Adaptive Com	bine
Filter None Auto Coil Select Default	
Coil elements HEA;HEPShim mode Tune up	
Contrast Adjust with body coil Off	
MTC On Confirm freq. adjustment Off	
Magn. preparation None Assume Silicone Off	
Flip angle 15 deg ? Ref. amplitude 1H 0.000 V	
Fat suppr. None Adjustment Tolerance Auto	
Water suppr. None Adjust volume	
Docition Incontor	
Averaging mode Short term	
Reconstruction Magnitude	
Wedsurements 1	
Multiple series Each measurement R >> L 350 mm A >> P 263 mm	
Resolution F >> H 350 mm	
Base resolution 256	
Phase resolution 100 % Physio	
Slice resolution 100 % 1st Signal/Mode None	
Phase partial Fourier 6/8 Segments 1	
0"	
1	
PAT mode GRAPPA Resp. control Off	
Accel. factor PE 2	
Ref. lines PE 32 Inline	
Matrix Coil Mode Auto (Triple) Subtract Off	
Reference scan mode Integrated Liver registration Off	
Std-Dev-Sag Off	
Image Filter Off Std-Dev-Cor Off	
Distortion Corr. Off Std-Dev-Tra Off	
Prescan Normalize Off Std-Dev-Time Off	

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\PhantomScanning\phannie_quant\lsotropic Scan

Rel. SNR: 1.00

SIEMENS: gre

Voxel size: 1.1×1.1×1.1 mm

PAT: Off

TA: 6:09

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement After measurement		Multi-slice mode Series	Interleaved Interleaved
Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
		Tim CT mode	Off
Load images to graphic	Off	ı	
segments	0.4	System	
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
further preparation		HEA	On
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
Destina		SP8	Off
Routine		SP6	Off
Slab group 1		SP3	Off
Slabs	1		_
Dist. factor	20 %	SP1	Off
Position	Isocenter	SP7	Off
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg		
Phase oversampling	0 %	Table position	H
Slice oversampling	0.0 %	Table position	0 mm
		MSMA	S - C - T
Slices per slab	256	Sagittal	R >> L
FoV read	280 mm	Coronal	A >> P
FoV phase	100.0 %	Transversal	F >> H
Slice thickness	1.10 mm	Save uncombined	Off
TR	5.6 ms	Coil Combine Mode	Adaptive Combine
TE	2.72 ms	Auto Coil Select	Default
Averages	1		
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	HEA;HEP	Confirm freq. adjustment	Off
1		Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	10 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
			•
Averaging mode	Short term	R >> L A >> P	350 mm
Reconstruction	Magnitude		263 mm
Measurements	1	F >> H	350 mm
Multiple series	Each measurement	Physio	
		1st Signal/Mode	None
Resolution		Segments	1
Base resolution	256	Jeginenis	I
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off		
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off	Inline	
			0"
PAT mode	None	Subtract	Off
Matrix Coil Mode	Auto (CP)	Liver registration	Off
		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off
Normalize	Off	MIP-Sag	Off
B1 filter	Off	MIP-Cor	Off
Raw filter	Off	MIP-Tra	Off
1		ויוור-וומ	Oil

Off On
Off Off
Off
Off Off
Oii
On
3D
Off
Off
Off
1
490 Hz/Px
No
Normal Fast Slab-sel. On

\\USER\CMI\PhantomScanning\phannie_quant\PD SNR

roperties		Special sat.	None
Prio Recon	Off		
Before measurement		System	0.5
After measurement		Body HEP	On Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	REF
outine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	75.0 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	10.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
ontrast		Rotation	0.00 deg
MTC	Off	—— R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
		•••	
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Resp. control	Off
Measurements	To the second		
Multiple series	Each measurement	Inline	
esolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
	Auto (CP)	MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
•		Bandwidth	244 Hz/Px
eometry Multi aliaa mada	Interlegued	Allowed delay	0 s
Multi-slice mode	Interleaved		
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_quant\PD SNR

TA: 16:07 Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMENS: se			
Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Transversal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	75.0 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	10.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	rato
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
ı		Rotation	0.00 deg
Contrast		R >> L	350 mm
MTC	Off	A >> P	263 mm
Magn. preparation	None	F >> H	350 mm
Flip angle	90 deg		000 111111
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction Measurements	Magnitude 1	Resp. control	Off
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor MIP-Tra	Off Off
Image Filter	Off	MIP-Time	Off
Distortion Corr.	Off	Save original images	On
Prescan Normalize	Off		5 11
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
Geometry		Bandwidth	244 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal
		Gradient mode	Fast
		202/±	. 401

\\USER\CMI\PhantomScanning\phannie_quant\T1 Mapping VFA 2

TA: 3:04 P.	AT: Off Voxel size: 1.0×	1.0×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	Caturation made	Oten devel
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Tim CT mode	Off
segments	0#	System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation Wait for user to start	Off	HEA	Off
Start measurements	single	SP4	Off
Start measurements	Sirigle	SP2	Off
Routine		SP8	Off
Slab group 1		SP6	Off
Slabs	1	SP3	Off
Dist. factor	20 %	SP1	Off
Position	Isocenter	SP7	Off
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4		
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
Contract		Assume Silicone	Off
Contrast MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	2 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Each measurement	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off		-
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off	Inline	
		Subtract	Off
PAT mode	None	Liver registration	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Sag Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Col	Off
Prescan Normalize	Off	Std-Dev-Tra Std-Dev-Time	Off
Normalize	Off	MIP-Sag	Off
B1 filter	Off	MIP-Cor	Off
Raw filter	Off	MIP-Tra	Off
1		IVIII ~ II a	Oil

MIP-Time Save original imag	Off es On
Wash - In Wash - Out TTP PEI	Off Off Off Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D Off Off Off 1 490 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

\\USER\CMI\PhantomScanning\phannie_quant\T1 Mapping VFA 5

		1.0×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Tim CT mode	Off
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
Douting		SP8	Off
Routine		SP6	Off
Slab group 1	4	SP3	Off
Slabs	1 20 %	SP1	Off
Dist. factor		SP7	Off
Position	Isocenter	SP5	Off
Orientation Phase enc. dir.	Sagittal		
Rotation	A >> P	Positioning mode	FIX
	0.00 deg 0 %	Table position	H
Phase oversampling Slice oversampling	0.0 %	Table position	0 mm
Slices per slab	36	MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV read FoV phase	75.0 %	Coronal	A >> P
Slice thickness	5.00 mm	Transversal	F >> H
TR	6.6 ms	Save uncombined	Off
TE	3.00 ms	Coil Combine Mode	Adaptive Combine
Averages	4	Auto Coil Select	Default
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
	20	Assume Silicone	Off
Contrast			0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	5 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Each measurement	Physio	
·		1st Signal/Mode	None
Resolution Base resolution	256	Segments	1
Phase resolution	256 100 %		
Slice resolution	100 %	Tagging	None
Phase partial Fourier	Off	Dark blood	Off
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off		
		Inline	0"
PAT mode	None	Subtract	Off Off
Matrix Coil Mode	Auto (CP)	Liver registration	Off
Image Filter	Off	Std-Dev-Sag	Off
Distortion Corr.	Off	Std-Dev-Cor	Off
Prescan Normalize	Off	Std-Dev-Tra	Off
Normalize	Off	Std-Dev-Time	Off
B1 filter	Off	MIP-Sag	Off
Raw filter	Off	MIP-Cor	Off Off
Taw into	Jii	MIP-Tra	Off

	MIP-Time Save original images	Off On
	Wash - In Wash - Out TTP	Off Off Off
	PEI	Off
	MIP - time	Off
;	Sequence	
	Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D Off Off Off 1 490 Hz/Px No
	RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

		ng\phannie_quant\T1 Mapping \	
TA: 3:04 P	AT: Off Voxel size: 1.0x	(1.0×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	Saturation mode	Standard
Inline movie	Off	Special sat.	None
Auto store images	On	opecial sat.	
Load to stamp segments	Off	Tim CT mode	O#
Load images to graphic	Off	1 m C1 mode	Off
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
Routine		SP8	Off
Slab group 1		SP6	Off
Slabs	1	SP3	Off
Dist. factor	20 %	SP1	Off
Position	Isocenter	SP7	Off
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4	Auto Con Select	Delault
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
ı		Assume Silicone	Off
Contrast	~"	? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	10 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Each measurement	Physio	
Resolution		1st Signal/Mode	None
Resolution	050	Segments	1
Base resolution	256		
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off Off	Resp. control	Off
Slice partial Fourier	Off Off	1 .	÷
Interpolation	OII	Inline	
PAT mode	None	Subtract	Off
Matrix Coil Mode	Auto (CP)	Liver registration	Off
Imaga Filter		Std-Dev-Sag	Off
Image Filter	Off Off	Std-Dev-Cor	Off
Distortion Corr.	Off Off	Std-Dev-Tra	Off
Prescan Normalize	Off Off	Std-Dev-Time	Off
Normalize	Off Off	MIP-Sag	Off
B1 filter	Off Off	MIP-Cor	Off

MIP-Tra

Off

Raw filter

Off

MIP-Time Save original imag	Off es On
Wash - In Wash - Out TTP PEI	Off Off Off Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D Off Off Off 1 490 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

\\USE	ER\CMI\PhantomScannir	ng\phannie_quant\T1 Mapping \	 √FA 15
	AT: Off Voxel size: 1.0×		SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	Cotymatics made	Otomaloud
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Tim CT mode	Off
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
Routine		SP8	Off
		SP6	Off
Slab group 1 Slabs	1	SP3	Off
Dist. factor	1 20 %	SP1	Off
Position		SP7	Off
	Isocenter	SP5	Off
Orientation	Sagittal		
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4	Shim mode	Tune up
Concatenations	1 Name	Adjust with body coil	Off
Filter	None	Confirm freg. adjustment	Off
Coil elements	BC	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	71010
Flip angle	15 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
		R >> L	350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	Took measures and	I	300
Multiple series	Each measurement	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off		
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off	Inline	
		Subtract	Off
PAT mode	None		Off
Matrix Coil Mode	Auto (CP)	Liver registration	Off
Image Filter	Off	Std-Dev-Sag Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Col	Off
Prescan Normalize	Off	Std-Dev-Tra Std-Dev-Time	Off
Normalize	Off	MIP-Sag	Off
B1 filter	Off	MIP-Sag MIP-Cor	Off

MIP-Cor

MIP-Tra

Off

Off

Raw filter

Off

	MIP-Time Save original images	Off On
	Wash - In Wash - Out TTP	Off Off Off
	PEI	Off
	MIP - time	Off
;	Sequence	
	Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D Off Off Off 1 490 Hz/Px No
	RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

\\USER\CMI\PhantomScanning\phannie_quant\T1 Mapping VFA 20

	Elliptical filter	Off
Off	Geometry	
-		Interleaved
		Interleaved
On		
	Saturation mode	Standard
	Special sat.	None
Off		
_	Tim CT mode	Off
	System	
Off		On
On	,	Off
		Off
Off		Off
		Off
-··· ··		Off
		Off
		Off
1		
20 %		Off
Isocenter		Off
Sagittal	543	Off
A >> P	Positioning mode	FIX
0.00 deg		H
0 %		0 mm
0.0 %		S - C - T
36		R >> L
250 mm		A >> P
75.0 %		F >> H
5.00 mm		Off
6.6 ms		Adaptive Combine
3.00 ms		Default
4		
1	Shim mode	Tune up
None	Adjust with body coil	Off
ВС	Confirm freq. adjustment	Off
	Assume Silicone	Off
		0.000 V
	Adjustment Tolerance	Auto
	Adjust volume	
•	Position	Isocenter
	Orientation	Transversal
None	Rotation	0.00 deg
Short term	R >> L	350 mm
	A >> P	263 mm
1	F >> H	350 mm
Fach measurement	Physic	
Laon measurement		None
		None
256	Segments	1
100 %	Tagging	None
100 %		Off
Off		
Off	Resp. control	Off
Off	Inline	
	Subtract	Off
None		Off
Auto (CP)	Liver registration	Off
Auto (Ci)		
	Std-Dev-Sag	_
Off	Std-Dev-Cor	Off
Off Off	Std-Dev-Cor Std-Dev-Tra	Off Off
Off Off Off	Std-Dev-Cor Std-Dev-Tra Std-Dev-Time	Off Off Off
Off Off	Std-Dev-Cor Std-Dev-Tra	Off Off
	On Off On Off Off Off Off Off Off Off On Off Single 1 20 % Isocenter Sagittal A >> P 0.00 deg 0 % 0.0 % 36 250 mm 75.0 % 5.00 mm 6.6 ms 3.00 ms 4 1 None BC Off None 20 deg None None Short term Magnitude 1 Each measurement 256 100 % 100 % Off Off Off Off	Off Geometry Multi-slice mode Series On Off Saturation mode Special sat. Off Tim CT mode Off System Off Body HEP HEA SP4 SP4 SP2 SP8 SP6 SP3 SP6 SP3 SP7 SP8 SP6 SP7 SP8 SP6 SP7 SP8 SP6 SP7 SP8 SP7 SP8 SP8 SP6 SP7 SP8 SP8 SP6 SP3 SP7 SP5 1 Sp7 Sp8 SP6 SP3 SP1 Sp7 Sp8 SP6 SP7 SP5 Sp7 Sp8 SP6 SP3 SP7 SP6 SP7 SP6 SP7 Sp8 SP7 SP6 SP7 Sp8 SP7 SP5 Somm Coronal Transversal Save uncombined Coil Combine Mode Adjust with body coil Confirm freq. adjustment Assume Silicone Position Orientation Rota

MIP-Tra

Off

Raw filter

Off

Off On
Off Off
Off
Off Off
Oii
On
3D
Off
Off
Off
1
490 Hz/Px
No
Normal Fast Slab-sel. On

\\USE	R\CMI\PhantomScanning\	phannie_quant\T1 Mapping \	VFA 25
TA: 3:04 PA	AT: Off Voxel size: 1.0×1.0	0×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	— Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	0-4	04
Inline movie	Off	Saturation mode	Standard
Auto store images	On	Special sat.	None
Load to stamp segments	Off		
Load images to graphic	Off	Tim CT mode	Off
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
	9.0	SP8	Off
Coutine		— SP6	Off
Slab group 1		SP3	Off
Slabs	1		- · ·
Dist. factor	20 %	SP1 SP7	Off Off
Position	Isocenter	SP7	Off
Orientation	Sagittal	5P5	Off
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4		
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
Contrast		Assume Silicone ? Ref. amplitude 1H	Off 0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	, idio
Flip angle	25 deg	Position	Isocenter
_ '		i osition	1300611161

Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
		Special sat.	None
Auto store images	On O"		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Tilli CT mode	Oli
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation	.		
Wait for user to start	Off	HEA	Off
		SP4	Off
Start measurements	single	SP2	Off
Routine		SP8	Off
		SP6	Off
Slab group 1		SP3	Off
Slabs	1	SP1	Off
Dist. factor	20 %	SP7	Off
Position	Isocenter		
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg		
	0.00 deg 0 %	Table position	H
Phase oversampling		Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms		
TE		Coil Combine Mode	Adaptive Combine
	3.00 ms	Auto Coil Select	Default
Averages	4	Chim mada	Tuna un
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
ı		Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	25 deg	Position	Isocenter
Fat suppr.	None		
Water suppr.	None	Orientation	Transversal
vvater suppr.		Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
	_	F >> H	350 mm
Measurements	1		
Multiple series	Each measurement	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
Phase resolution	100 %	Tanaina	Nama
		Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off	Doop control	O#
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off	Inline	
DAT made	Nama	Subtract	Off
PAT mode	None		Off
Matrix Coil Mode	Auto (CP)	Liver registration	
Imago Filtor	Off	Std-Dev-Sag	Off
Image Filter		Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off
Normalize	Off	MIP-Sag	Off
B1 filter	Off	MIP-Cor	Off
Raw filter	Off	MIP-Tra	Off
ı		ļ	5 .11
		213/+	

MIP-Time Save original images	Off On
Wash - In Wash - Out TTP	Off Off Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D Off Off Off 1 490 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On

		ng\phannie_quant\T1 Mapping \	
TA: 3:04 P.	AT: Off Voxel size: 1.0x	:1.0×5.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	On	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
	Off	Saturation mode	Standard
Inline movie	-	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Tim OT mode	Oli
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off	SP4	Off
Start measurements	single	SP2	Off
	<u> </u>	SP8	Off
Routine			
Slab group 1		—— SP6	Off
Slabs	1	SP3	Off
Dist. factor	20 %	SP1	Off
Position	Isocenter	SP7	Off
Orientation	Sagittal	SP5	Off
Phase enc. dir.	A >> P	Positioning mode	EIV
Rotation	0.00 deg	Positioning mode	FIX
Phase oversampling	0.00 deg 0 %	Table position	Н
Slice oversampling	0.0 %	Table position	0 mm
		MSMA	S - C - T
Slices per slab	36	Sagittal	R >> L
FoV read	250 mm	Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4		
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
		Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	30 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
		R >> L	350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude		
Measurements	1	F >> H	350 mm
Multiple series	Each measurement	Physio	
		1st Signal/Mode	None
Resolution	050	Segments	1
Base resolution	256		•
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off		
Slice partial Fourier	Off	Resp. control	Off
Interpolation	Off	Inline	

Load to viewer	On		
Inline movie	Off	Saturation mode	Standard
		Special sat.	None
Auto store images	On O"		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Tim CT mode	Oli
segments		System	
Auto open inline display	Off	Body	On
Start measurement without	On	HEP	Off
further preparation		HEA	Off
Wait for user to start	Off		
Start measurements		SP4	Off
Start measurements	single	SP2	Off
Routine		SP8	Off
Slab group 1		SP6	Off
Slabs	1	SP3	Off
		SP1	Off
Dist. factor	20 %	SP7	Off
Position	Isocenter	SP5	Off
Orientation	Sagittal		
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
Slice oversampling	0.0 %	MSMA	S - C - T
Slices per slab	36		
FoV read	250 mm	Sagittal	R >> L
		Coronal	A >> P
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	5.00 mm	Save uncombined	Off
TR	6.6 ms	Coil Combine Mode	Adaptive Combine
TE	3.00 ms	Auto Coil Select	Default
Averages	4		
Concatenations	1	Shim mode	Tune up
Filter	None	Adjust with body coil	Off
Coil elements	BC	Confirm freq. adjustment	Off
Con elements	ВС	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
MTC	Off		
Magn. preparation	None	Adjustment Tolerance	Auto
		Adjust volume	
Flip angle	30 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
A	Short term	R >> L	350 mm
Averaging mode		A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	1	F >> 11	330 11111
Multiple series	Each measurement	Physio	
Resolution		1st Signal/Mode	None
	050	Segments	1
Base resolution	256		•
Phase resolution	100 %	Tagging	None
Slice resolution	100 %	Dark blood	Off
Phase partial Fourier	Off		
Slice partial Fourier	Off	Resp. control	Off
Interpolation		'	
	Off		
	Off	Inline	
PAT mode	Off None	Subtract	Off
PAT mode Matrix Coil Mode	None	Subtract Liver registration	Off
Matrix Coil Mode	None Auto (CP)	Subtract	
	None	Subtract Liver registration	Off
Matrix Coil Mode	None Auto (CP)	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor	Off Off Off
Matrix Coil Mode Image Filter	None Auto (CP) Off	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	Off Off Off Off
Matrix Coil Mode Image Filter Distortion Corr. Prescan Normalize	None Auto (CP) Off Off Off	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time	Off Off Off Off Off
Matrix Coil Mode Image Filter Distortion Corr. Prescan Normalize Normalize	None Auto (CP) Off Off Off Off	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag	Off Off Off Off Off Off Off
Matrix Coil Mode Image Filter Distortion Corr. Prescan Normalize	None Auto (CP) Off Off Off	Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time	Off Off Off Off Off

MIP-Time	e jinal images	Off On
Wash - Ir Wash - C TTP PEI)	Off Off Off Off
MIP - tim	е	Off
Sequence		
Introducti Dimensio Elliptical Phase sta Asymmet Contrasts Bandwidt Flow com	on scanning abilisation tric echo s h	On 3D Off Off Off 1 490 Hz/Px No
RF pulse Gradient Excitation RF spoili	mode า	Normal Fast Slab-sel. On

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 35 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEM

SIEMENS: tse

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	0.11	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off		
segments	Oli	System	0"
	Off	Body	Off
Auto open inline display	On	HEP	On
Start measurement without	On	HEA	On
further preparation	0#	SP4	Off
Wait for user to start	Off	SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		—— SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Danisianian and	DEE
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg	Table position	Н
	0.00 deg 0 %	Table position	0 mm
Phase oversampling FoV read	250 mm	MSMA	S - C - T
		Sagittal	R >> L
FoV phase	87.5 %	Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1	Chim mada	Tung up
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
ontrast		Confirm freq. adjustment	Off
MTC	Off	Assume Silicone	Off
Magn. preparation	Slice-sel. IR	? Ref. amplitude 1H	0.000 V
TI	35 ms	Adjustment Tolerance	Auto
		Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None O#	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	15t Signal/ividde	
esolution	Lacii illoadaroilloila	Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	· ·	
Phase partial Fourier	Off	Inline	
Trajectory	Cartesian	Subtract	Off
Interpolation	Off	Std-Dev-Sag	Off
	OII	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
		MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	On
B1 filter	Off		C
	Off	Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 75
PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEM

SIEMENS: tse

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	Oli	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	On	HEA	On
further preparation Wait for user to start	Off	SP4	Off
Start measurements		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		—— SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Positioning mode	FIX
Phase enc. dir.	A >> P	Table position	H
Rotation	0.00 deg	Table position	П 0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm		8 - C - 1 R >> L
FoV phase	79.7 %	Sagittal	
Slice thickness	6.0 mm	Coronal	A >> P
TR	4500 ms	Transversal	F >> H
TE	6.8 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Adaptive Combine
Concatenations	1	Auto Coil Select	Default
Filter	l None	Shim mode	Tune up
	None	Adjust with body coil	Off
Coil elements	HEA;HEP	Confirm freq. adjustment	Off
ontrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	75 ms	Adjustment Tolerance Adjust volume	Auto
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	
Fat suppr.	None	Rotation	Transversal
Water suppr.	None		0.00 deg
Restore magn.	Off	R >> L	350 mm
	<u> </u>	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		
esolution		Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Sag Std-Dev-Cor	Off
		Std-Dev-Col	Off
PAT mode	None	Std-Dev-Tra Std-Dev-Time	Off
Matrix Coil Mode	Auto (CP)		
Image Filter	Off	MIP-Sag	Off
Distortion Corr.	Off	MIP-Cor	Off
Prescan Normalize	Off	MIP-Tra	Off
Normalize		MIP-Time	Off
Normalize B1 filter	Off Off	Save original images	On
	VIII		

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 100

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 1.0×1.0×6.0 mm

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	3	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	Oli	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	Oli	HEA	On
further preparation	Off	SP4	Off
Wait for user to start		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Positioning mode	
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	H 0 mm
Phase oversampling	0.00 deg 0 %	Table position	0 mm
FoV read	250 mm	MSMA	S-C-T
	79.7 %	Sagittal	R >> L
FoV phase		Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1	Shim mode	Tuno un
Filter	None		Tune up Off
Coil elements	HEA;HEP	Adjust with body coil	
Contrast		Confirm freq. adjustment Assume Silicone	Off Off
MTC	Off		
Magn. preparation	Slice-sel. IR	? Ref. amplitude 1H	0.000 V
TI	100 ms	Adjustment Tolerance	Auto
Freeze suppressed tissue	Off	Adjust volume	la a a a uta u
Flip angle	180 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
		R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		
esolution		Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	· ·	
Phase partial Fourier	Off	Inline	
	Cartesian	Subtract	Off
Trajectory		Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
	, tato (Oi)	···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	On
B1 filter	Off		3
		Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 125

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 1.0×1.0×6.0 mm

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Octobra and	
	Oli	System	~"
segments	O#	Body	Off
Auto open inline display	Off	HEP	On
Start measurement without	On	HEA	On
further preparation	0"	SP4	Off
Wait for user to start	Off	SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	30	SP1	Off
Dist. factor	30 10 %	SP7	Off
		SP5	Off
Position	L4.4 A14.5 H4.4		
Orientation	Sagittal	Positioning mode	FIX
Phase enc. dir.	A >> P	Table position	Н
Rotation	0.00 deg	Table position	0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV phase	79.7 %	Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1	Auto Coil Select	
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
	HEA,HEI	Confirm freq. adjustment	Off
contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	125 ms	Adjust volume	rato
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	
Water suppr.	None		0.00 deg
Restore magn.	Off	R >> L	350 mm
	OII	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		
esolution		Dark blood	Off
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inlino	
Phase partial Fourier	Off	Inline	
Trajectory	Cartesian	Subtract	Off
Interpolation	Off	Std-Dev-Sag	Off
	OII	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
		···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	On
B1 filter	Off	Cave original illiages	U
		Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 150

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 1.0×1.0×6.0 mm

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	On	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	Oli	HEA	On
further preparation	Off	SP4	Off
Wait for user to start		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Docitioning made	EIV
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	Н
		Table position	0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV phase	79.7 %	Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1		<u>-</u>
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
		Confirm freq. adjustment	Off
ontrast	0"	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	150 ms	Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Averaging mode		· ·	
Reconstruction	Magnitude	Physio	
Measurements Multiple paries	Look measures and	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
esolution Base resolution	256	Resp. control	Off
Phase resolution	100 %	· ·	
Phase partial Fourier	Off	Inline	
	Cartesian	Subtract	Off
Trajectory		Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
	, tato (Oi)	···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	
B1 filter	Off	Save original images	On
_ · · · · · · · · · · · · · · · · · · ·	J.,	Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 250

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 1.0×1.0×6.0 mm

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	3	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	On	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	Oli	HEA	On
further preparation	Off	SP4	Off
Wait for user to start		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Docitioning made	EIV
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	Н
		Table position	0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV phase	79.7 %	Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1		-
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
ontrast		Confirm freq. adjustment	Off
	Off	Assume Silicone	Off
MTC Magazina		? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	250 ms	Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Averaging mode		· ·	
Reconstruction	Magnitude	Physio	
Measurements	Look measures and	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
esolution Base resolution	256	Resp. control	Off
Phase resolution	100 %	· ·	
Phase partial Fourier	Off	Inline	
	Cartesian	Subtract	Off
Trajectory		Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
	, tato (Oi)	···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	
B1 filter	Off	Save original images	On
- · · · · · · · · · · · · · · · · · · ·	J.,	Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 1000 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEME

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	OII	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	OII	HEA	On
further preparation	Off	SP4	Off
Wait for user to start		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Docitioning made	EIV
Phase enc. dir.	A >> P	Positioning mode	FIX
Rotation	0.00 deg	Table position	Н
	0.00 deg 0 %	Table position	0 mm
Phase oversampling		MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV phase	79.7 %	Coronal	A >> P
Slice thickness	6.0 mm	Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1		<u>-</u>
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
		Confirm freq. adjustment	Off
ontrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	1000 ms	Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
		F >> H	350 mm
Averaging mode	Short term	I	000 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
esolution			
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Sag Std-Dev-Cor	Off
		Std-Dev-Col	Off
PAT mode	None		
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off Off
Image Filter	Off	MIP-Sag	Off
Image Filter		MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	On
B1 filter	Off	Sequence	
Raw filter	Off		

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 1500
PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEME

TA: 5:12

SIEMENS: tse

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement	.	Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	Custom	
segments	Oli	System	0"
Auto open inline display	Off	Body	Off
Start measurement without	On	HEP	On
	OII	HEA	On
further preparation Wait for user to start	Off	SP4	Off
Start measurements		SP2	Off
Start measurements	single	SP8	Off
outine		SP6	Off
Slice group 1		—— SP3	Off
Slices	30	SP1	Off
Dist. factor	10 %	SP7	Off
Position	L4.4 A14.5 H4.4	SP5	Off
Orientation	Sagittal	Positioning mode	FIX
Phase enc. dir.	A >> P	Table position	H
Rotation	0.00 deg	Table position	П 0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm		S-0-1 R>>L
FoV phase	79.7 %	Sagittal	
Slice thickness	6.0 mm	Coronal	A >> P
TR	4500 ms	Transversal	F >> H
TE	6.8 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Adaptive Combine
Concatenations	1	Auto Coil Select	Default
Filter	None	Shim mode	Tune up
		Adjust with body coil	Off
Coil elements	HEA;HEP	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI .	1500 ms	Adjust volume	rato
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
		F>> H	350 mm
Averaging mode	Short term		330 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
esolution			
Base resolution	256	Resp. control	Off
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
	None	Std-Dev-Time	Off
Matrix Coil Mode	Auto (CP)	MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off	Save original images	
B1 filter	Off	Save Original Images	On
	* ***	Sequence	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 2000 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEME

SIEMENS: tse

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On		
Inline movie	Off	Special sat.	None
Auto store images	On	Tim CT mode	Off
Load to stamp segments	Off	Tim OT mede	011
Load images to graphic	Off	System	
segments		Body	Off
Auto open inline display	Off	l HEP	On
Start measurement without	On	HEA	On
further preparation		SP4	Off
Wait for user to start	Off		
Start measurements	single	SP2	Off
Start measurements	Sirigie	SP8	Off
outine		SP6	Off
Slice group 1		SP3	Off
Slices	1	SP1	Off
Dist. factor	50 %	SP7	Off
		SP5	Off
Position	L57.9 A13.8 H3.1		- ··
Orientation	Sagittal	Positioning mode	REF
Phase enc. dir.	A >> P	Table position	Н
Rotation	0.00 deg	Table position	0 mm
Phase oversampling	0 %	MSMA	S - C - T
FoV read	250 mm	Sagittal	R >> L
FoV phase	79.7 %	•	
Slice thickness	6.0 mm	Coronal	A >> P
		Transversal	F >> H
TR	4500 ms	Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1		
Filter	None	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
	1127 (,1121	Confirm freq. adjustment	Off
ontrast		Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	Slice-sel. IR	Adjustment Tolerance	Auto
TI	2000 ms	Adjust volume	Adio
Freeze suppressed tissue	Off	,	
		Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Avaraging	Chart tar	F >> H	350 mm
Averaging mode	Short term	l	
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		
esolution		Dark blood	Off
	050	Resp. control	Off
Base resolution	256	resp. control	Oli
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Sag Std-Dev-Cor	Off
			_
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
		···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
	Off		
Normalize	Oli		
Normalize B1 filter	Off	Save original images	On

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T1 MAP VTI 3000

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 1.0×1.0×6.0 mm

Properties		Elliptical filter	Off
Prio Recon	Off	Geometry	
Before measurement		Multi-slice mode	Interleaved
After measurement		Series	Interleaved
Load to viewer	On	0	
Inline movie	Off	Special sat.	None
Auto store images	On		
Load to stamp segments	Off	Tim CT mode	Off
Load images to graphic	Off	System	
segments		Body	Off
Auto open inline display	Off	HEP	On
Start measurement without	On	HEA	On
further preparation	.	SP4	Off
Wait for user to start	Off		
Start measurements	single	SP2	Off
	Single	SP8	Off
Routine		SP6	Off
Slice group 1		SP3	Off
Slices	1	SP1	Off
Dist. factor	50 %	SP7	Off
Position	L57.9 A13.8 H3.1	SP5	Off
Orientation	Sagittal	Positioning mode	FIX
Phase enc. dir.	A >> P	Table position	Н
Rotation	0.00 deg	Table position	0 mm
Phase oversampling	0 %		S - C - T
FoV read	250 mm	MSMA	
FoV phase	79.7 %	Sagittal	R >> L
Slice thickness	6.0 mm	Coronal	A >> P
	4500 ms	Transversal	F >> H
TR		Save uncombined	Off
TE	6.8 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	1	Shim mode	Tupo up
Filter	None		Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
MTC	Off	Assume Silicone	Off
Magn. preparation	Slice-sel. IR	? Ref. amplitude 1H	0.000 V
TI	3000 ms	Adjustment Tolerance	Auto
		Adjust volume	
Freeze suppressed tissue	Off	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Short term	F >> H	350 mm
Reconstruction	Magnitude	Dhysis	
Measurements	1	Physio	Nama
Multiple series	Each measurement	1st Signal/Mode	None
Resolution	Lacirmeasurement	Dark blood	Off
Base resolution	256	Resp. control	Off
	100 %	· ·	
Phase resolution	Off	Inline	
Phase partial Fourier	=	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
PAT mode	None	Std-Dev-Tra	Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
WIGHTA CON MICHE	, nato (Ot)	···· MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
Normalize	Off		
		Save original images	On
B1 filter	Off	•	

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1

Bandwidth 391 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 6.8 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\T2 Map 15s

TA: 17:07 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMENS: se_mc

Properties		Geometry	
Prio Recon	Off	Multi-slice mode	Interleaved
Before measurement		Series	Interleaved
After measurement			
Load to viewer	On	Special sat.	None
Inline movie	Off	System	
Auto store images	On	Body	Off
Load to stamp segments	Off	HEP	On
Load images to graphic	Off	HEA	On
segments	O.I.	SP4	Off
Auto open inline display	Off		
Start measurement without		SP2	Off
	On	SP8	Off
further preparation	0"	SP6	Off
Wait for user to start	Off	SP3	Off
Start measurements	single	SP1	Off
Routine		SP7	Off
		SP5	Off
Slice group 1	30		
Slices	30	Positioning mode	REF
Dist. factor	10 %	Table position	Н
Position	L2.5 A14.5 H2.5	Table position	0 mm
Orientation	Sagittal	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	250 mm	Save uncombined	Off
FoV phase	79.7 %	Coil Combine Mode	Adaptive Combine
Slice thickness	6.0 mm	Auto Coil Select	Default
TR	5000 ms	Auto Coli Select	Delault
TE 1	15.0 ms	Shim mode	Tune up
		Adjust with body coil	Off .
TE 2	30.0 ms	Confirm freq. adjustment	Off
TE 3	45.0 ms	Assume Silicone	Off
TE 4	60.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1		
Concatenations	1	Adjustment Tolerance	Auto
Filter	None	Adjust volume	
Coil elements	HEA;HEP	Position	Isocenter
		Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	180 deg	F >> H	350 mm
Fat suppr.	None	DI :	
Water suppr.	None	Physio	
		1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Daik blood	Oil
Measurements	1	Inline	
Multiple series	Each measurement	Subtract	Off
Posolution		Liver registration	Off
Resolution	050	Std-Dev-Sag	Off
Base resolution	256	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Col	Off
Phase partial Fourier	Off		
Interpolation	Off	Std-Dev-Time	Off
DAT mode	None	MIP-Sag	Off
PAT mode	None	MIP-Cor	Off
Matrix Coil Mode	Auto (CP)	MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
	_	Save original images	On
Distortion Corr.	Off Off		
Prescan Normalize	Off	Sequence	
Normalize	Off	Introduction	On
B1 filter	Off	Contrasts	4
Raw filter	Off	Bandwidth	391 Hz/Px
Elliptical filter	Off	Allowed delay	0 s
•		*	

RF pulse type Gradient mode Low SAR Fast

\\USER\CMI\PhantomScanning\phannie_quant\T2 Map 25s

TA: 17:07 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMENS: se_mc

Properties		Geometry	
Prio Recon	Off	Multi-slice mode	Interleaved
Before measurement		Series	Interleaved
After measurement			A1
Load to viewer	On	Special sat.	None
Inline movie	Off	System	
Auto store images	On	Body	Off
Load to stamp segments	Off	HEP	On
Load images to graphic	Off	HEA	On
segments	Oli	SP4	Off
Auto open inline display	Off		
		SP2	Off
Start measurement without	On	SP8	Off
further preparation	0"	SP6	Off
Wait for user to start	Off	SP3	Off
Start measurements	single	SP1	Off
Routine		SP7	Off
		SP5	Off
Slice group 1	30		
Slices	30	Positioning mode	FIX
Dist. factor	10 %	Table position	H
Position	L2.5 A14.5 H2.5	Table position	0 mm
Orientation	Sagittal	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	250 mm	Save uncombined	Off
FoV phase	79.7 %	Coil Combine Mode	Adaptive Combine
Slice thickness	6.0 mm	Auto Coil Select	Default
TR	5000 ms	Auto Con Gelect	
TE 1	25.0 ms	Shim mode	Tune up
TE 2	50.0 ms	Adjust with body coil	Off
TE 3		Confirm freq. adjustment	Off
	75.0 ms	Assume Silicone	Off
TE 4	100.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	Auto
Filter	None	Position	Isocenter
Coil elements	HEA;HEP		
Contrast		Orientation	Transversal
	0"	Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	180 deg	F >> H	350 mm
Fat suppr.	None	Dhysia	
Water suppr.	None	Physio	N
A vers sin succeeds	Ch aut taums	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude		
Measurements	1	Inline	
Multiple series	Each measurement	Subtract	Off
Resolution		Liver registration	Off
Base resolution	256	Std-Dev-Sag	Off
		Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Phase partial Fourier	Off	Std-Dev-Time	Off
Interpolation	Off	MIP-Sag	Off
PAT mode	None	MIP-Cor	Off
Matrix Coil Mode			
IVIALITA COII IVIOUE	Auto (CP)	MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
Distortion Corr.	Off	Save original images	On
Prescan Normalize	Off	Sequence	
Normalize	Off	Introduction	<u>On</u>
B1 filter	Off		On 4
Raw filter		Contrasts	4
	Off Off	Bandwidth	391 Hz/Px
Elliptical filter	Off	Allowed delay	0 s

RF pulse type Gradient mode Low SAR Fast

\\USER\CMI\PhantomScanning\phannie_quant\T2 Map 40s

TA: 17:07 PAT: Off Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMENS: se_mc

Properties		Geometry	
Prio Recon	Off	Multi-slice mode	Interleaved
Before measurement		Series	Interleaved
After measurement			
Load to viewer	On	Special sat.	None
Inline movie	Off	System	
Auto store images	On	Body	Off
Load to stamp segments	Off	HEP	On
Load images to graphic	Off	HEA	On
segments	Oli	SP4	Off
Auto open inline display	Off		
		SP2	Off
Start measurement without	On	SP8	Off
further preparation	0"	SP6	Off
Wait for user to start	Off	SP3	Off
Start measurements	single	SP1	Off
Routine		SP7	Off
		SP5	Off
Slice group 1	20		
Slices	30	Positioning mode	FIX
Dist. factor	10 %	Table position	Н
Position	L2.5 A14.5 H2.5	Table position	0 mm
Orientation	Sagittal	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	250 mm	Save uncombined	Off
FoV phase	79.7 %	Coil Combine Mode	Adaptive Combine
Slice thickness	6.0 mm	Auto Coil Select	Default
TR	5000 ms	Auto Con Select	
TE 1	40.0 ms	Shim mode	Tune up
TE 2		Adjust with body coil	Off
	80.0 ms	Confirm freq. adjustment	Off
TE 3	120.0 ms	Assume Silicone	Off
TE 4	160.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1		
Concatenations	1	Adjustment Tolerance	Auto
Filter	None	Adjust volume	
Coil elements	HEA;HEP	Position	Isocenter
		Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	180 deg	F >> H	350 mm
Fat suppr.	None	l .	
Water suppr.	None	Physio	
		1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Dark blood	Oil
Measurements	1	Inline	
Multiple series	Each measurement	Subtract	Off
Panalutian		Liver registration	Off
Resolution	0.50	Std-Dev-Sag	Off
Base resolution	256	Std-Dev-Sag Std-Dev-Cor	Off
Phase resolution	100 %		
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
DAT	Nama	MIP-Sag	Off
PAT mode	None	MIP-Cor	Off
Matrix Coil Mode	Auto (CP)	MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
		Save original images	On
Distortion Corr.	Off	1	
L Uroccon Normaliza	Off	Sequence	
Prescan Normalize	~ "		
Normalize	Off	Introduction	On
Normalize B1 filter	Off	Introduction Contrasts	On 4
Normalize B1 filter Raw filter			
Normalize B1 filter	Off	Contrasts	4

RF pulse type Gradient mode Low SAR Fast

\\USER\CMI\PhantomScanning\phannie_quant\Resolution Insert

Voxel size: 0.5×0.5×4.0 mm Rel. SNR: 1.00

SIEMENS: tse

PAT: Off

TA: 10:47

		Multi-slice mode	Interleaved
Properties		Series	Interleaved
Prio Recon	Off		
Before measurement		Special sat.	None
After measurement			
Load to viewer	On	Tim CT mode	Off
Inline movie	Off	System	
Auto store images	On		044
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments		HEA	On O"
Auto open inline display	Off	SP4	Off
Start measurement without	On	SP2	Off
further preparation		SP8	Off
Wait for user to start	Off	SP6	Off
Start measurements	single	SP3	Off
I	5g.c	SP1	Off
Routine		SP7	Off
Slice group 1		SP5	Off
Slices	45		
Dist. factor	10 %	Positioning mode	FIX
Position	L2.5 A14.5 H2.5	Table position	Н
Orientation	Sagittal	Table position	0 mm
Phase enc. dir.	A >> P	MSMA	S - C - T
Rotation	0.00 deg	Sagittal	R >> L
Phase oversampling	0 %	Coronal	A >> P
FoV read	250 mm	Transversal	F >> H
		Save uncombined	Off
FoV phase	100.0 %	Coil Combine Mode	Adaptive Combine
Slice thickness	4.0 mm	Auto Coil Select	Default
TR	5000 ms		
TE	57.0 ms	Shim mode	Tune up
Averages	2	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
Contrast		Adjustment Tolerance	Auto
MTC	Off	Adjust volume	
	None	Position	Isocenter
Magn. preparation		Orientation	Transversal
Flip angle	180 deg	Rotation	0.00 deg
Fat suppr.	None	R >> L	350 mm
Water suppr.	None	A >> P	263 mm
Restore magn.	Off	F >> H	350 mm
Averaging mode	Short term		330 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		0"
1	Lacifileasurement	Dark blood	Off
Resolution		Resp. control	Off
Base resolution	512	 ·	
Phase resolution	100 %	Inline	~"
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor	Off
		Std-Dev-Tra	Off
PAT mode	None	Std-Dev-Time	Off
Matrix Coil Mode	Auto (CP)	MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
		MIP-Time	Off
Prescan Normalize	Off Off	Save original images	On
Normalize	Off	1	
B1 filter	Off	Sequence	
Raw filter	Off	Introduction	On
Elliptical filter	Off	Dimension	2D
Geometry		Compensate T2 decay	Off
Coomery		· · · · · · · · · · · · · · · · ·	

Reduce Motion Sens. Off Contrasts 1

Bandwidth 244 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 9.48 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_quant\Section Thickness 3mm							
TA: 5:27	PAT: Off	Voxel size: 1.0×0.5×3.0 mm	Rel. SNR: 1.00	SIEMENS: tse			

Prio Recon		Multi-slice mode Series	Interleaved Interleaved
	Off		
Before measurement		Special sat.	None
After measurement	0:-		
Load to viewer	On Off	Tim CT mode	Off
Inline movie	Off	System	
Auto store images	On O"	Body	Off
Load to stamp segments	Off	HEP	On
Load images to graphic	Off	HEA	On
segments	O#	SP4	Off
Auto open inline display	Off	SP2	Off
Start measurement without	On	SP8	Off
further preparation	O#	SP6	Off
Wait for user to start	Off	SP3	Off
Start measurements	single	SP1	Off
Routine		SP7	Off
Slice group 1		SP5	Off
Slices	60		
Dist. factor	100 %	Positioning mode	FIX
Position	L2.5 A14.5 H2.5	Table position	H
Orientation	Sagittal	Table position	0 mm
Phase enc. dir.	A >> P	MSMA	S-C-T
Rotation	0.00 deg	Sagittal	R >> L
Phase oversampling	0 %	Coronal	A >> P
FoV read	250 mm	Transversal	F >> H
FoV phase	100.0 %	Save uncombined	Off
Slice thickness	3.0 mm	Coil Combine Mode	Adaptive Combine
TR	5000 ms	Auto Coil Select	Default
TE	8.6 ms	Shim mode	Tune up
Averages	2	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
I	,	Adjustment Tolerance	Auto
Contrast		Adjustment Tolerance Adjust volume	Auto
MTC	Off	Position	Isocenter
Magn. preparation	None	Orientation	Transversal
Flip angle	180 deg	Rotation	0.00 deg
Fat suppr.	None	R >> L	350 mm
Water suppr.	None	A >> P	263 mm
Restore magn.	Off		350 mm
Averaging mode	Short term	1 > 11	330 11111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
1		Daik blood	
Resolution		Resp. control	Off
Base resolution	512	Inlina	
Phase resolution	50 %	Inline	Off
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	Off	Std-Dev-Cor Std-Dev-Tra	Off
PAT mode	None		Off
Matrix Coil Mode	Auto (CP)	Std-Dev-Time	Off
		MIP-Sag	Off
Image Filter	Off	MIP-Cor	Off
Distortion Corr.	Off	MIP-Tra	Off
Prescan Normalize	Off	MIP-Time	Off
	Off	Save original images	On
Normalize		Coguenco	
B1 filter	Off	Sequence	
B1 filter Raw filter	Off	Introduction	On
B1 filter		•	On 2D
B1 filter Raw filter	Off	Introduction	

Reduce Motion Sens. Off Contrasts 1

Bandwidth 488 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 8.6 ms

Define Turbo factor

	•	phannie_quant\Section Thickn	
TA: 5:27 P	AT: Off Voxel size: 1.0x0	0.5×5.0 mm Rel. SNR: 1.00	SIEMENS: tse
Properties		Multi-slice mode	Interleaved
Prio Recon	Off	—— Series	Interleaved
Before measurement		Special sat.	None
After measurement			
Load to viewer	On	Tim CT mode	Off
Inline movie	Off	į.	
Auto store images	On	System	
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments		HEA	On
Auto open inline display	Off	SP4	Off
Start measurement without	On	SP2	Off
further preparation		SP8	Off
Wait for user to start	Off	SP6	Off
Start measurements	single	SP3	Off
Pouting		SP1	Off
Routine		SP7	Off
Slice group 1	26	SP5	Off
Slices	36	Positioning mode	FIX
Dist. factor	100 %	Table position	H
Position	L2.5 A14.5 H2.5	Table position	0 mm
Orientation	Sagittal	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	250 mm	Save uncombined	Off
FoV phase	100.0 %	Coil Combine Mode	Adaptive Combine
Slice thickness	5.0 mm	Auto Coil Select	Default
TR	5000 ms		
TE	8.6 ms	Shim mode	Tune up
Averages	2	Adjust with body coil	Off
Concatenations	1	Confirm freq. adjustment	Off
Filter	None	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
Contrast		Adjustment Tolerance	Auto
MTC	Off	Adjust volume	
Magn. preparation	None	Position	Isocenter
Flip angle	180 deg	Orientation	Transversal
Fat suppr.	None	Rotation	0.00 deg
Water suppr.	None	R >> L	350 mm
Restore magn.	Off	A >> P	263 mm
Averaging mode	Chart tarm	F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements Multiple series	1 Each measurement		
Resolution	Lacifileasurement	Dark blood	Off
Base resolution	512	Resp. control	Off
Phase resolution	50 %	Inline	
Phase partial Fourier	Off	Subtract	Off
	Cartesian	Std-Dev-Sag	Off
Trajectory Interpolation	Off	Std-Dev-Cor	Off
micipolation		Std-Dev-Tra	Off
PAT mode	None	Std-Dev-Time	Off
Matrix Coil Mode	Auto (CP)	MIP-Sag	Off
Imaga Filtor	O#	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr. Prescan Normalize	Off	MIP-Time	Off
	Off	Save original images	On
Normalize B1 filter	Off Off		
B1 filter	Off	Sequence	

Raw filter

Geometry

Elliptical filter

Off

Off

Introduction

Dimension

Compensate T2 decay

On

2D

Off

Reduce Motion Sens. Off Contrasts 1

Bandwidth 488 Hz/Px
Flow comp. No
Allowed delay 0 s
Echo spacing 8.6 ms

Define Turbo factor

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 15
7 Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

TA: 17:07

TA. 17.07	VOXel Size. 1.0x1.0	x0.0 IIIII Kei. Sivk. 1.00 Sie	INICINO. SE
Properties		Special sat.	None
Prio Recon	Off		
Before measurement		System	
After measurement		Body	On
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	_	SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	3. .	SP7	Off
Wait for user to start	Off	SP5	Off
Start measurements	single	Positioning mode	REF
	onigio	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	0 mm S - C - T
Slices	30		8 - C - 1 R >> L
Dist. factor	10 %	Sagittal Coronal	R >> L A >> P
Position	Isocenter		A >> P F >> H
Orientation	Sagittal	Transversal	F >> H Off
Phase enc. dir.	A >> P	Save uncombined	
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	15.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
		Rotation	0.00 deg
Contrast			350 mm
MTC	Off	A >> P	263 mm
Magn. preparation	None	F >> H	350 mm
Flip angle	90 deg	ı	333
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Poen control	Off
Measurements	1	Resp. control	Oli
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	···· MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Seguenco	
B1 filter	Off	Sequence	On
Raw filter	Off	Introduction	On Off
Elliptical filter	Off	Asymmetric echo	Off
Emplical filler	Oil	Contrasts	1 201 H=/Dy
Geometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal
		Gradient mode	Fast
		Gradient mode	ા વરુા

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 30

SIEMENS: se

Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00

TA: 17:07

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off		
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	.	SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	OII	SP7	Off
Wait for user to start	Off	SP5	Off
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
		Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	Auto Coil Select	Default
Phase oversampling	0 %	Auto Coli Select	
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	30.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	Adio
Filter	None		laggantar
Coil elements	BC	Position	Isocenter
Coll elements	ВС	Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	— R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physic	
		Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude		
Measurements	1	Resp. control	Off
Multiple series	Each measurement	Inlino	
wattiple series	Lacifileasurement	Inline	0"
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
	<u></u>	MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
		··· MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
Distortion Corr.	Off	Save original images	On
Prescan Normalize	Off		Oil
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
•		Bandwidth	391 Hz/Px
Geometry		— Allowed delay	0 s
Multi-slice mode	Interleaved	/ iiiowed delay	
Series	Interleaved	RF pulse type	Normal
			Fast

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 45

TA: 17:07 Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMENS: se				
Properties		Special sat.	None	
Prio Recon	Off	System		
Before measurement		Body	On	
After measurement		HEP	Off	
Load to viewer	On	HEA	Off	
Inline movie	Off	SP4	Off	
Auto store images	On	SP2	Off	
Load to stamp segments	Off	SP8	Off	
Load images to graphic	Off	SP6	Off	
segments		SP3	Off	
Auto open inline display	Off	SP1	Off	
Start measurement without	On	SP7	Off	
further preparation		SP5	Off	
Wait for user to start	Off			
Start measurements	single	Positioning mode	FIX	
Routine		Table position	Н	
Slice group 1		Table position	0 mm	
Slices	30	MSMA	S - C - T	
Dist. factor	10 %	Sagittal	R >> L	
Position	Isocenter	Coronal	A >> P	
Orientation	Sagittal	Transversal	F >> H	
Phase enc. dir.	A >> P	Save uncombined	Off	
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine	
Phase oversampling	0 %	Auto Coil Select	Default	
FoV read	250 mm	Shim mode	Tune up	
FoV phase	79.7 %	Adjust with body coil	Off	
Slice thickness	6.0 mm	Confirm freq. adjustment	Off	
TR	5000 ms	Assume Silicone	Off	
TE	45.0 ms	? Ref. amplitude 1H	0.000 V	
Averages	1	Adjustment Tolerance	Auto	
Concatenations	1	Adjust volume	rato	
Filter	None	Position	Isocenter	
Coil elements	BC	Orientation	Transversal	
1		Rotation	0.00 deg	
Contrast		R >> L	350 mm	
MTC	Off	A >> P	263 mm	
Magn. preparation	None	F >> H	350 mm	
Flip angle	90 deg		000 111111	
Fat suppr.	None	Physio		
Water suppr.	None	1st Signal/Mode	None	
Averaging mode	Short term	Dark blood	Off	
Reconstruction Measurements	Magnitude	Resp. control	Off	
Multiple series	Each measurement	Inline		
Resolution		Subtract	Off	
	256	Std-Dev-Sag	Off	
Base resolution Phase resolution	256 100 %	Std-Dev-Cor	Off	
		Std-Dev-Tra	Off	
Phase partial Fourier	Off	Std-Dev-Time	Off	
Interpolation	Off	MIP-Sag	Off	
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off	
Image Filter	Off	MIP-Tra	Off	
Distortion Corr.	Off	MIP-Time	Off	
Prescan Normalize	Off	Save original images	On	
Normalize	Off	Sequence		
B1 filter	Off	Introduction	On	
Raw filter	Off	Asymmetric echo	Off	
Elliptical filter	Off	Contrasts	1	
		Bandwidth	391 Hz/Px	
Geometry		Allowed delay	0 s	
Multi-slice mode	Interleaved			
Series	Interleaved	RF pulse type	Normal	
1		Gradient mode	Fast	

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 60
Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

TA: 17:07

Dranantia		Special sat.	None
Properties	0"		
Prio Recon	Off	System	
Before measurement		Body	On
After measurement Load to viewer	On	HEP	Off
	Off	HEA	Off
Inline movie		SP4	Off
Auto store images	On Off	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	0"	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	0"	SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 deg 0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tuno un
FoV phase	79.7 %		Tune up
Slice thickness	6.0 mm	Adjust with body coil	Off Off
TR	5000 ms	Confirm freq. adjustment	Off Off
TE	60.0 ms	Assume Silicone	Off
	1	? Ref. amplitude 1H	0.000 V
Averages Concatenations	1	Adjustment Tolerance	Auto
Filter	None	Adjust volume	
	BC	Position	Isocenter
Coil elements	ВС	Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	— R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term		O#
Reconstruction		Dark blood	Off
Measurements	Magnitude	Resp. control	Off
	I Fack magaziroment	1	
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On.
Raw filter	Off		On Off
Elliptical filter	Off	Asymmetric echo	Off
Liliptical filter	OII	Contrasts	1 204 H=/Dv
Geometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 25
Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

Donocation		Special sat.	None
Properties	0,4		
Prio Recon	Off	System	
Before measurement		Body	On
After measurement	05	HEP	Off
Load to viewer	On O#	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On Off	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	0"	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	0"	SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
Routine		Table position	H
Slice group 1		Table position	0 mm
Slices	30	MSMA	S-C-T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 deg 0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	25.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1		Auto
Concatenations	1	Adjustment Tolerance	Auto
Filter	None	Adjust volume	laggantar
Coil elements	BC	Position	Isocenter
Con elements	ВС	Orientation	Transversal
Contrast		Rotation R >> L	0.00 deg 350 mm
MTC	Off	— K >> L A >> P	263 mm
Magn. preparation	None	F >> H	_**
Flip angle	90 deg	г>>п	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Dark blood	OII
Measurements	1	Resp. control	Off
Multiple series	Each measurement	1	
•	Lacii illeasulelllelli	Inline	0"
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
	Auto (CD)	MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
	5	Bandwidth	391 Hz/Px
Geometry			391 HZ/PX 0 s
Multi-slice mode	Interleaved	Allowed delay	
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 50
Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

Dranautica		Special sat.	None
Properties	O#		
Prio Recon Before measurement	Off	System	
After measurement		Body	On
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	Oll	SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
	On	SP7	Off
further preparation	Off	SP5	Off
Wait for user to start Start measurements		Danition in an and a	FIV
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S-C-T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	50.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	Auto
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
	20	Rotation	0.00 deg
Contrast		—— Rotation R >> L	350 mm
MTC	Off	A >> P	263 mm
Magn. preparation	None	F >> H	350 mm
Flip angle	90 deg	1 >>11	330 11111
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Resp. control	Off
Measurements Multiple series	1 Each measurement	Inline	O.I.
•		Subtract	Off
Resolution	050	Std-Dev-Sag	Off
Base resolution	256	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Phase partial Fourier	Off	Std-Dev-Time	Off
Interpolation	Off	MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
		MIP-Tra	Off
Image Filter	Off	MIP-Time	Off
Distortion Corr.	Off	Save original images	On
Prescan Normalize	Off	Save Original Images	OII
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
		Bandwidth	391 Hz/Px
Geometry	lataria ave d	Allowed delay	0 s
Multi-slice mode	Interleaved		
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 75

7 Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

Droportion		Special sat.	None
Properties	0"		
Prio Recon	Off	System	
Before measurement		Body	On
After measurement	05	HEP	Off
Load to viewer	On Off	HEA	Off
Inline movie		SP4	Off
Auto store images	On Off	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	0"	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	0"	SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 deg 0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tuno un
FoV phase	79.7 %		Tune up
Slice thickness	6.0 mm	Adjust with body coil	Off Off
TR	5000 ms	Confirm freq. adjustment	Off
TE	75.0 ms	Assume Silicone	Off
	75.0 ms 1	? Ref. amplitude 1H	0.000 V
Averages Concatenations	1	Adjustment Tolerance	Auto
Filter	None	Adjust volume	
	BC	Position	Isocenter
Coil elements	ВС	Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	— R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dork blood	Off
Reconstruction		Dark blood	Off
Measurements	Magnitude	Resp. control	Off
	I Fack magaziroment	1	
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On.
Raw filter	Off		On Off
Elliptical filter	Off	Asymmetric echo	Off
Liliptical filter	Oil	Contrasts	1 201 H=/Dv
Geometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 100

SIEMENS: se

Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00

Properties		Special sat.	None
Prio Recon	Off	0	
Before measurement		System	
After measurement		Body	On O"
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments		SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	3	SP7	Off
Wait for user to start	Off	SP5	Off
Start measurements	single	Positioning mode	FIX
Ctart measurements	Sirigic	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	•
Slices	30	_	S-C-T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	75.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	Auto
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
	20	Rotation	0.00 deg
Contrast		— R >> L	350 mm
MTC	Off	A >> P	263 mm
Magn. preparation	None	F >> H	350 mm
Flip angle	90 deg	F >> 11	330 11111
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Resp. control	Off
Measurements	Took massurers	'	U
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Sequence	
B1 filter	Off	•	On
Raw filter	Off	Introduction	On O#
		Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1 204 H=/D:/
Seometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 40

SIEMENS: se

Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00

Properties		Special sat.	None
Prio Recon	Off	Cyctor	
Before measurement		System	
After measurement		Body	On
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	On	SP6	Off
Auto open inline display	Off	SP3	Off
		SP1	Off
Start measurement without	On	SP7	Off
further preparation	0#	SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
Routine		Table position	Н
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	30 10 %	Sagittal	R >> L
		Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	Auto Coil Select	Default
Phase oversampling	0 %	7.010 COII COICOI	
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	40.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
		Rotation	0.00 deg
Contrast			350 mm
MTC	Off	A >> P	263 mm
Magn. preparation	None	F >> H	350 mm
Flip angle	90 deg		330 11111
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude		
Measurements	1	Resp. control	Off
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
interpolation	OII	NUD O	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Imaga Filter	Off	···· MIP-Tra	Off
Image Filter	Off Off	MIP-Time	Off
Distortion Corr.	Off Off	Save original images	On
Prescan Normalize	Off Off		
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
Geometry		Bandwidth	391 Hz/Px
	Interleaved	Allowed delay	0 s
Multi-slice mode Series	Interleaved Interleaved		Normal
Jenes		RF pulse type	Normal
		Gradient mode	Fast

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Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00 SIEMI

SIEMENS: se

	System Body HEP HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	On Off Off Off Off Off Off Off Off Off O
	Body HEP HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off
	HEP HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off
	HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off
	SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off
	SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off Off Off Off Off Off S-C-T R>> L A>> P F>> H
	SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	SP1 SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	SP7 SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	SP5 Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	Off FIX H 0 mm S - C - T R >> L A >> P F >> H
	Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	FIX H 0 mm S - C - T R >> L A >> P F >> H
	Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	H 0 mm S - C - T R >> L A >> P F >> H
	Table position Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	H 0 mm S - C - T R >> L A >> P F >> H
	Table position MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	0 mm S - C - T R >> L A >> P F >> H
	MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode	S - C - T R >> L A >> P F >> H
	Sagittal Coronal Transversal Save uncombined Coil Combine Mode	R >> L A >> P F >> H
	Coronal Transversal Save uncombined Coil Combine Mode	A >> P F >> H
	Transversal Save uncombined Coil Combine Mode	F >> H
	Save uncombined Coil Combine Mode	
	Coil Combine Mode	
		Off
		Adaptive Combine
	Auto Coil Select	Default
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Silicone	Off
	? Ref. amplitude 1H	0.000 V
	Adjustment Tolerance	Auto
	Adjust volume	Auto
	Position	laggantar
	Orientation	Isocenter
	Rotation	Transversal
	Rotation R >> L	0.00 deg 350 mm
	—	263 mm
	F >> H	_ · · · · · · · · · · · · · · · · · · ·
	Г >> П	350 mm
	Physio	
	1st Signal/Mode	None
1	Dark blood	Off
)	Resp. control	Off
surement	ı	
		Off
	_	On
	Jave Original illiages	Oil
	Sequence	
	Introduction	On
	Asymmetric echo	Off
	Contrasts	1
	Bandwidth	391 Hz/Px
<u></u>		0 s
J		Normal Fast
-	surement d d	Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images Sequence Introduction Asymmetric echo Contrasts Bandwidth Allowed delay

\\USER\CMI\PhantomScanning\phannie_extras\T2 ME 120

SIEMENS: se

Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00

Properties		Special sat.	None
Prio Recon	Off	0:	
Before measurement		System	
After measurement		Body	On O"
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments		SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	3	SP7	Off
Wait for user to start	Off	SP5	Off
Start measurements	single	Positioning mode	FIX
Ctart measurements	Single		H
Coutine		Table position	П 0 mm
Slice group 1		Table position	•
Slices	30	MSMA Sociital	S-C-T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	Auto Coil Select	Default
FoV read	250 mm	Shim mode	Tune up
FoV phase	79.7 %	Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	120.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	Auto
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Con elements	ВС	Rotation	
Contrast		Rotation	0.00 deg 350 mm
MTC	Off	—— K >> L A >> P	263 mm
Magn. preparation	None		
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
Averaging mode	Short term	Dark blood	Off
Reconstruction	Magnitude	Posp control	Off
Measurements	1	Resp. control	Oii
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Imaga Filtor	Off	··· MIP-Tra	Off
Image Filter Distortion Corr.	Off Off	MIP-Time	Off
		Save original images	On
Prescan Normalize	Off Off		
Normalize	Off	Sequence	
B1 filter	Off	Introduction	On
Raw filter	Off	Asymmetric echo	Off
Elliptical filter	Off	Contrasts	1
Geometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal

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SIEMENS: se

Voxel size: 1.0×1.0×6.0 mm Rel. SNR: 1.00

Properties		Special sat.	None
Prio Recon	Off	Cyatam	
Before measurement		System	
After measurement		Body	On
Load to viewer	On	HEP	Off
Inline movie	Off	HEA	Off
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	O.I.	SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	Oli	SP7	Off
Wait for user to start	Off	SP5	Off
			FIV
Start measurements	single	Positioning mode	FIX
Routine		Table position	H
Slice group 1		Table position	0 mm
Slices	30	MSMA	S - C - T
Dist. factor	10 %	Sagittal	R >> L
Position	Isocenter	Coronal	A >> P
Orientation	Sagittal	Transversal	F >> H
Phase enc. dir.	A >> P	Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0.00 deg 0 %	Auto Coil Select	Default
FoV read	250 mm	Ob.:	T
FoV phase	79.7 %	Shim mode	Tune up
•		Adjust with body coil	Off
Slice thickness	6.0 mm	Confirm freq. adjustment	Off
TR	5000 ms	Assume Silicone	Off
TE	160.0 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	—— R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	90 deg	F >> H	350 mm
Fat suppr.	None	Physio	
Water suppr.	None	1st Signal/Mode	None
	Short term		
Averaging mode Reconstruction	Magnitude	Dark blood	Off
Measurements	1	Resp. control	Off
Multiple series	Each measurement	Inline	
Resolution		Subtract	Off
Base resolution	256	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
Interpolation	Off	Std-Dev-Time	Off
	OII	MIP-Sag	Off
Matrix Coil Mode	Auto (CP)	MIP-Cor	Off
Image Filter	Off	···· MIP-Tra	Off
Distortion Corr.	Off	MIP-Time	Off
Prescan Normalize	Off	Save original images	On
Normalize	Off	Seguence	
B1 filter	Off	Sequence	05
Raw filter	Off	Introduction	On O#
Elliptical filter	Off	Asymmetric echo	Off
Empudai miter	Oli	Contrasts	1
Geometry		Bandwidth	391 Hz/Px
Multi-slice mode	Interleaved	Allowed delay	0 s
Series	Interleaved	RF pulse type	Normal
		Gradient mode	Fast
		2.201011111000	

\\USER\CMI\PhantomScanning\fbirnx\Brain Localizer Voxel size: 1.9×1.5×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:13

PAT: Off

Properties	0"	Phase partial Fourier Interpolation	Off Off
Prio Recon	Off		
Before measurement		PAT mode	None
After measurement		Matrix Coil Mode	Auto (CP)
Load to viewer	On	langua Filtan	
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	On	Prescan Normalize	Off
Load images to graphic	Off	Normalize	On
segments	OII	Intensity	Medium
	04	Cut off	20
Auto open inline display	Off	Width	4
Start measurement without	Off	Unfiltered images	Off
further preparation		B1 filter	Off
Wait for user to start	Off	Raw filter	On
Start measurements	single	Intensity	Weak
Routine			
		Slope	25
Slice group 1	•	Elliptical filter	Off
Slices	3	Geometry	
Dist. factor	20 %	Multi-slice mode	Sequential
Position	Isocenter	Series	
Orientation	Sagittal	Selles	Ascending
Phase enc. dir.	A >> P	Saturation mode	Standard
Rotation	0.00 deg	Special sat.	None
Slice group 2	ores and		
Slices	3		Ο#
Dist. factor	20 %	Tim CT mode	Off
Position		System	
	Isocenter	Body	Off
Orientation	Coronal	HEP	On
Phase enc. dir.	R >> L		
Rotation	0.00 deg	HEA	On
Slice group 3		Positioning mode	REF
Slices	3	Table position	H
Dist. factor	20 %	Table position	0 mm
Position	Isocenter	MSMA	S - C - T
Orientation	Transversal		
Phase enc. dir.	R >> L	Sagittal	R >> L
Rotation	90.00 deg	Coronal	A >> P
Phase oversampling	0 %	Transversal	F >> H
Friase oversampling	U 70	Save uncombined	Off
	000		
FoV read	280 mm	Coil Combine Mode	Adaptive Combine
FoV read FoV phase	100.0 %	Coil Combine Mode Auto Coil Select	Adaptive Combine Default
FoV read FoV phase Slice thickness	100.0 % 8.0 mm	Auto Coil Select	Default
FoV read FoV phase Slice thickness TR	100.0 % 8.0 mm 8.9 ms	Auto Coil Select Shim mode	Default Tune up
FoV read FoV phase Slice thickness TR TE	100.0 % 8.0 mm	Auto Coil Select Shim mode Adjust with body coil	Default Tune up Off
FoV read FoV phase Slice thickness TR	100.0 % 8.0 mm 8.9 ms	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment	Default Tune up Off Off
FoV read FoV phase Slice thickness TR TE	100.0 % 8.0 mm 8.9 ms	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone	Default Tune up Off
FoV read FoV phase Slice thickness TR TE Averages	100.0 % 8.0 mm 8.9 ms	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment	Default Tune up Off Off
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone	Default Tune up Off Off Off
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements	100.0 % 8.0 mm 8.9 ms 4.32 ms 1	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance	Default Tune up Off Off Off Off 0.000 V
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H	Default Tune up Off Off Off 0.000 V Auto
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position	Default Tune up Off Off Off 0.000 V Auto Isocenter
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P	Default Tune up Off Off Off 0,000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr.	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H	Default Tune up Off Off Off 0,000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr.	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Averaging mode	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio	Default Tune up Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Segments	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None 1
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Segments Tagging	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None 1
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Segments	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None 1
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Segments Tagging	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None 1
FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series Resolution	100.0 % 8.0 mm 8.9 ms 4.32 ms 1 9 Raw filter, Normalize HEA;HEP	Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ? Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Segments Tagging Dark blood	Default Tune up Off Off Off Off 0.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None 1 None Off

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

Ocquence	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

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Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off On Off On Off On Off Off Off Off Off	Body HEP HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position MSMA	Off On On Off Off Off Off Off Off Off Of
Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	On Off On Off Off Off Off Off	HEA SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position	On Off Off Off Off Off Off Off Off Off REF H 0 mm
Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	On Off On Off Off Off Off Off	SP4 SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off Off Off Off Off Off Off REF H 0 mm
After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off On Off Off Off Off On Off	SP2 SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off Off Off Off Off Off REF H 0 mm
Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off On Off Off Off Off On Off	SP8 SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off Off Off Off REF H 0 mm
Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off On Off Off Off Off On Off	SP6 SP3 SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off Off Off REF H 0 mm
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	On Off Off Off On	SP3 SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off Off REF H 0 mm
Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off Off On Off	SP1 SP7 SP5 Positioning mode Table position Table position	Off Off Off REF H 0 mm
Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off Off On Off	SP7 SP5 Positioning mode Table position Table position	Off Off REF H 0 mm
segments Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off On Off	Positioning mode Table position Table position	Off REF H 0 mm
Auto open inline display Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	On Off	Positioning mode Table position Table position	REF H 0 mm
Start measurement without further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	On Off	Table position Table position	H 0 mm
further preparation Wait for user to start Start measurements Routine Slice group 1 Slices	Off	Table position Table position	H 0 mm
Wait for user to start Start measurements Routine Slice group 1 Slices		Table position	0 mm
Start measurements Routine Slice group 1 Slices			-
Routine Slice group 1 Slices	omg.o		S-C-T
Slice group 1 Slices		Sagittal	R >> L
Slices		- Coronal	A >> P
		Transversal	F >> H
Dist 4:	54	Coil Combine Mode	Sum of Squares
	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
	T > C4.4	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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
	1450 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
	Off	Physio	
	None	1st Signal/Mode	None
	55 deg	1	110110
	Fat sat.	BOLD	
		GLM Statistics	Off
	Long term	Dynamic t-maps	Off
	Magnitude	Starting ignore meas	0
	408	Ignore after transition	0
	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
	78	Paradigm size	20
	100 %	Meas[1]	Baseline
	Off	Meas[2]	Baseline
•	Off	Meas[3]	Baseline
		Meas[4]	Baseline
	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
	Off	Meas[8]	Baseline
	Off	Meas[9]	Baseline
	On O#	Meas[10]	Baseline
	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
	Interleaved	Meas[14]	Active
	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

<u>'</u>	
Introduction	Off
Bandwidth	2374 Hz/Px
Flow comp.	No Off
Free echo spacing Echo spacing	0.55 ms
	0.00 1115
EPI factor	78
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

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TA: 11:00 PAT	: Off Voxel size: 2.5×2.5×2.5	· ·	EMENS: ep2d_bold
Properties		Body	Off
Prio Recon	Off	- HEP	On
Before measurement	Oil	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
		SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On Off	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments	0"	SP5	Off
Auto open inline display	Off	D 10 1	DEE
Start measurement without	On	Positioning mode	REF
further preparation	0"	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S-C-T
Routine		Sagittal	R >> L
Slice group 1		- Coronal	A >> P
Slices	54	Transversal	F >> H
Dist. factor	0 %	Coil Combine Mode	Sum of Squares
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	0.00 deg 0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV read FoV phase	100.0 %	Adjustment Tolerance	Auto
	2.5 mm		Auto
Slice thickness	_	Adjust volume	lacacatas
TR	4370 ms	Position	Isocenter
TE	40 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	192 mm
Filter	None	A >> P	192 mm
Coil elements	HEA;HEP	F >> H	135 mm
Contrast MTC	Off	Physio 1st Signal/Made	None
	55 deg	1st Signal/Mode	None
Flip angle		BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	150	Ignore after transition	0
Delay in TR	0 ms	Model transition states	Off
Multiple series	Off	Temp. highpass filter	Off
1		Threshold	4.00
Resolution		- Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
·····	7 (d. to (O1)	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[11] Meas[12]	Active
1		Meas[12] Meas[13]	Active
Geometry Multi plice mode	Interlooped	Meas[13] - Meas[14]	Active
Multi-slice mode	Interleaved	Meas[14] Meas[15]	Active
Series	Interleaved	Meas[15] Meas[16]	Active
Special sat.	None	Meas[17]	Active
1		IVIO40[I /]	, 10ti v C
System		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

004000	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast

\\USER\CMI\PhantomScanning\fbirnx\Resting State 2.5mm MB3 MGH

Properties Body On Prio Recon Off HEP Off After measurement After measurement SP4 Off Load to viewer On SP2 Off Inline movie Off SP8 Off Auto store images On SP6 Off Load to stamp segments Off SP3 Off Load images to graphic Off SP3 Off segments Off SP1 Off Auto open inline display Off SP5 Off Start measurement without Off SP5 Off Wait for user to start Off Position in gmode REF Start measurements Single MSMA S • C • T Slices group 1 Slices group 1 Sagittal R > L Slices group 1 Slices for transversal Ax> P Auto Coil Select Default Orientation Transversal Shim mode Sum of Squares Auto Coil Select Default <th></th> <th></th> <th></th> <th></th> <th></th>					
Prio Recon Before measurement After meas					Properties
Before measurement After measurement After measurement SP4 Off			HEP	Off	
After measurement		Off	HEA	Oil	
Load to viewer On SP2 Off Inline movie Off SP8 Off SP8 Off SP6 Off SP6 Off SP6 Off SP6 Off SP6 Off SP7 Off		Off	SP4		
Inline movie		Off	SP2		
Inline move		Off	SP8		
Auto store images					
Dead to stamp segments					
SP7				Off	Load to stamp segments
Segments		-		Off	Load images to graphic
Start measurement without further preparation Wait for user to start Off Slice group 1 Slices 57 Dist. factor 0 % Position Isocenter Orientation Transversal Phase enc. dir. A >> P Contrast TR Slice thickness 2.5 mm TR Colle thickness 2.5 mm TR Slice thickness 2.5 mm TR Slice thickness 2.5 mm TR TR TR TR TR TR TR TR TR T					segments
Start measurement without further preparation Wait for user to start Off Start measurements single Start measurements Single Start measurements Single Start measurements Single Start measurements Single Start measurements Silce group 1			3F5	Off	Auto open inline display
further preparation Wait for user to start Off Table position H Start measurements single MSMA S - C - T Routine Slice group 1 Sagittal R >> L Slices 57 Coronal A >> P Dist. factor 0 % Coil Combine Mode Sum of Squares Position Isocenter Default Orientation Transversal Shim mode Standard Phase enc. dir. A >> P Adjust with body coil Off Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjust world Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Filter None A >> P 192 mm Foolitelements BC Fat sat. BOLD MTC Off Starting ignore meas<		REF	Positioning mode	Off	
Wait for user to start Start measurements Off Table position 0 mm Routine Single MSMA S - C - T Solice group 1 Solices 57 Sagittal R >> L Dist. factor 0 % Transversal F > H Position Isocenter Coil Combine Mode Sum of Squares Orientation Transversal Auto Coil Select Default Phase enc. dir. A >> P Adjust with body coil Off Rotation 0.00 deg Confirm freq. adjustment Off Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. anplitude 1H 0.000 V FoV phase 100.0 % Adjust with body coil Off Slice thickness 2.5 mm ? Ref. anplitude 1H 0.000 V Adjust wolume Position Isocenter TE 40 ms Position Isocenter TE 40 ms Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Filter None A >> P 192 mm Coll elements BC Text signal/Mode None					
Start measurements				Off	
Routine Slice group 1		-			
Slice group 1 Slices 57 Dist. factor 0 % Position Isocenter Orientation 7 Transversal 8 Averages 1 Concatenations 1 Averaging mode Rocconstruction 1 Rocconstruction 2 Roccons				Single	Otart measurements
Slice group 1					Routine
Slices 57 Dist, factor 0 % Position Isocenter Orientation 7 Transversal Shim mode Stum of Squares Phase enc. dir. A >> P Rotation 0.00 deg Confirm freq. adjustment Off Phase oversampling 0 % PoV read 192 mm Position Position Position Off TR Adjust with body coil Off FoV read 192 mm Position Position Position Position Phase oversampling Off TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation O.00 deg Concatenations 1 Rotation O.00 deg The Titler None A P 192 mm Coil elements BC F P 192 mm Contrast Physio MTC Off Flip angle 90 deg Fat suppr. Fat sat. MCC Off Reconstruction Magnitude Starting ignore meas Off Reconstruction Magnitude Starting ignore meas Off Starting ignore after transition O					Slice group 1
Dist. factor Position Isocenter Orientation Transversal Phase enc. dir. A >> P Adjust with body coil Off Position Off Phase oversampling Off Poversampling O				57	
Position Isocenter Auto Coll 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 FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjust wolume Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Filip angle 90 deg BOLD GLM Statistics Off	;			-	
Orientation Phase enc. dir. RotationTransversal A >> PShim mode Adjust with body coil Confirm freq. adjustment Assume Silicone OffOff Off Assume Silicone Phase oversampling FoV read Slice thickness TR TR TS70 ms Concatenations TFI Coil elementsShim mode Adjust with body coil Confirm freq. adjustment Poff Assume Silicone Adjustment Tolerance Adjust volumeTR TS70 ms TE Averages Concatenations Filter Coil elements2.5 mm 40 ms 1570 ms 1570 ms 1570 ms 1570 ms Position Position Position Position Position Notation Rotation A >> P 192 mm F>> L F>> H F>> H Dynamic t-maps Starting ignore meas Off Dynamic t-maps Off Starting ignore meas Off Starting ignore meas Off<		Default	Auto Coil Select		
Phase enc. dir. RotationA >> PAdjust with body coil Confirm freq. adjustment Assume SiliconeOff Off Assume SiliconeFoV read FoV phase Slice thickness TR TE Concatenations Foil elements192 mm 192 mm 192 mm 192 mm 193 mm 194 mm 195 mm <td></td> <td>Standard</td> <td>Shim mode</td> <td></td> <td></td>		Standard	Shim mode		
Rotation 0.00 deg Confirm freq. adjustment Off Assume Silicone Off Phase oversampling 0 % Assume Silicone Off Phase oversampling 192 mm Provided Pr					
Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A> P 192 mm Coil elements BC F >> H 143 mm Contrast MTC Off Statistics Off Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term Reconstruction Magnitude Measurements 370 Measurements 370 Assume Silicone Off ? Ref. amplitude 1H 0.000 V Adjustment Tolerance Auto Adjustment Tolerance Auto Adjust volume Position Isocenter Resilicone Off ? Ref. amplitude 1H 0.000 V Adjustment Tolerance Auto Silicone Off Position Off Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition 0					
FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast MTC Off 1st Signal/Mode None Fat suppr. Fat sat. BOLD Averaging mode Long term BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0					
FoV phase 100.0 % Slice thickness 2.5 mm TR 1570 ms TE 40 ms Averages 1 Concatenations 1 Filter None A>> P Coil elements BC Filip angle Fat suppr. Averaging mode Reconstruction Magnitude Resonstruction Measurements FoV phase 100.0 % Adjust volume Position Isocenter Transversal Rotation 0.00 deg R >> L 192 mm A >> P 192 mm Filter None A>> P 192 mm Filter None A>> P 192 mm The stant Signal/Mode None BOLD GLM Statistics Off Dynamic t-maps Off Starting ignore meas 0 Ignore after transition Adjustment Tolerance Auto Auto Adjust volume Auto Adjust volume Adjust volume Auto Adjust volume Adjust volu		-			
Slice thickness 2.5 mm Adjust volume TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Filip angle 90 deg BOLD BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0					
TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast MTC Off 1st Signal/Mode None Flip angle 90 deg BOLD BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		Auto			·
TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg BOLD Fat suppr. Fat sat. BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0				_	
Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg BOLD BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		Isocenter		1570 ms	
Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg BOLD BOLD Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0			Orientation	40 ms	
Filter None BC F> H 192 mm Coil elements BC F>> H 143 mm Contrast Physio MTC Off Signal/Mode None Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term BCM Statistics Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0			Rotation	1	Averages
Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg Fat suppr. Fat sat. BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		192 mm	R >> L	1	Concatenations
Contrast MTC Off 1st Signal/Mode None Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		192 mm	A >> P	None	Filter
MTC Off 1st Signal/Mode None Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		143 mm	F >> H	BC	Coil elements
Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0			Physio		Contrast
Flip angle 90 deg Fat suppr. Fat sat. Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0		None	1st Signal/Mode	Off	MTC
Fat suppr. Fat sat. GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0			1		
Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0					
Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0					
Measurements 370 Ignore after transition 0		Off			Averaging mode
		0	Starting ignore meas	Magnitude	Reconstruction
		0	Ignore after transition	370	Measurements
Delay in TR 0 ms Model transition states On		On	Model transition states	0 ms	Delay in TR
Multiple series Off Temp. highpass filter On		On	Temp. highpass filter	Off	
Threshold 4.00		-			1
Resolution Paradigm size 20					
Base resolution /8 Meas[1] Baseline			_		
Phase resolution 100 % Meas[2] Baseline					
Phase partial Fourier Off Meas[3] Baseline					
Interpolation Off Meas[4] Baseline				Off	Interpolation
				NI	DAT d-
Matrix Coil Mode Auto (CP) Meas[6] Baseline				AUTO (CP)	IVIATRIX COII IVIOGE
Distortion Corr. Off Meas[7] Baseline				Off	Distortion Corr
Process Normaliza Off					
Pow filter On					
Elliptical filter Off					
Elliptical filter Off Meas[11] Active					
Hamming Off Meas[12] Active		Active	Meas[12]	OII	mamming
Geometry Meas[13] Active		Active	Meas[13]		Geometry
Multi-slice mode Interleaved Meas[14] Active		Active		Interleaved	•
Series Interleaved Meas[15] Active					
Intollogyou Interior		Active			
Meas[16] Active				None	Special sat.
					•
		Active	I Measi18i		Cyctom

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00

\\USER\CMI\PhantomScanning\fbirnx\Brain Localizer w/FatHat

	AT: Off Voxel size: 1.9	1.5×8.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Phase partial Fourier Interpolation	Off Off
Prio Recon	Off		
Before measurement		PAT mode	None
After measurement		Matrix Coil Mode	Auto (CP)
Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	On	Normalize	On
Load images to graphic	Off	Intensity	Medium
segments		Cut off	20
Auto open inline display	Off	Width	4
Start measurement without	Off	Unfiltered images	Off
further preparation	0"	B1 filter	Off
Wait for user to start	Off	Raw filter	On
Start measurements	single	Intensity	Weak
Routine		Slope	25
Slice group 1		Elliptical filter	Off
Slices	3	'	
Dist. factor	20 %	Geometry	
Position	Isocenter	Multi-slice mode	Sequential
Orientation	Sagittal	Series	Ascending
Phase enc. dir.	A >> P	Saturation mode	Standard
Rotation	0.00 deg	Special sat.	None
Slice group 2	<u> </u>		
Slices	3	Tim CT mode	Off
Dist. factor	20 %	Tim OT mode	O.I.
Position	Isocenter	System	
Orientation	Coronal	Body	Off
Phase enc. dir.	R >> L	HEP	On
Rotation	0.00 deg	HEA	On
Slice group 3	<u> </u>	Positioning mode	REF
Slices	3	Table position	H
Dist. factor	20 %	Table position	0 mm
Position	Isocenter	MSMA	S - C - T
Orientation	Transversal		R >> L
Phase enc. dir.	R >> L	Sagittal Coronal	A >> P
Rotation	90.00 deg	Transversal	F>> H
Phase oversampling	0 %	Save uncombined	Off
FoV read	280 mm	Coil Combine Mode	Adaptive Combine
FoV phase	100.0 %	Auto Coil Select	Default
Slice thickness	8.0 mm	Adio Goli Gelect	Delauit
TR	8.9 ms	Shim mode	Tune up
TE	4.32 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	9	Assume Silicone	Off
Filter	Raw filter, Normalize	? Ref. amplitude 1H	0.000 V
Coil elements	HEA;HEP	Adjustment Tolerance	Auto
Contrast		Adjust volume	laaaantar
TD	0 ms	Position	Isocenter
MTC	Off	Orientation	Transversal
Magn. preparation	None	Rotation	0.00 deg
Flip angle	40 deg	R >> L	350 mm
Fat suppr.	None	A >> P	263 mm
Water suppr.	None	F >> H	350 mm
		···· Physio	
Averaging mode	Short term	1st Signal/Mode	None
Reconstruction	Magnitude	Segments	1
Measurements	1		
Multiple series	Off	Tagging	None
Resolution		Dark blood	Off
Base resolution	192	Resp. control	Off
Phase resolution	75 %		
1		Inline	

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

Ocquerioc	
Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	180 Hz/Px
Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

 $\verb|\USER\CMI\PhantomScanning\fbirnx\Resting State 2.5mm MB3_CMRR w/FatHat| \\$

TA: 10:00 PAT: O	ff Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00	USER: cmrr_mbep2d_bold
D .:	1	Body	Off
Properties		HEP	On
Prio Recon	Off	HEA	On
Before measurement		SP4	Off
After measurement			
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
	On	SP6	Off
Auto store images		SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off .		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Sirigie		
Routine		Sagittal	R >> L
Slice group 1		Coronal	A >> P
Slices	54	Transversal	F >> H
	-	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	L0.0 A24.4 F18.3		
Orientation	T > C4.4	Shim mode	Standard
Phase enc. dir.	A >> P	Adjust with body coil	Off
Rotation	0.00 deg	Confirm freq. adjustm	ent Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	
l •			e Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	L0.0 A24.4 F18.3
TE	40.0 ms	Orientation	T > C4.4
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
I		F >> H	135 mm
Contrast			100 11111
MTC		Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 dea	_	
Fat suppr.	Fat sat.	BOLD	
i at suppr.	1 at 3at.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	408	Ignore after transition	
	0 ms	Model transition state	
Delay in TR			
Multiple series	Off	Temp. highpass filter	On 4.00
Resolution		Threshold	4.00
Base resolution	78	Paradigm size	20
	_	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
DAT	News		
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off		Active
		Meas[12]	
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
System			
	271	1/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1 1

\\USER\CMI\PhantomScanning\fbirnx\Resting State 2.5mm noMB w/FatHat

Voxel size: 2.5×2.5×2.5 mm Rel. SNR: 1.00

SIEMENS: ep2d_bold

TA: 11:00

TA. 11.00 PAT	. Oii Voxei Size. 2.3 x 2.3 x 2.3	IIIII Rei. SNR. 1.00 SIE	EMENS. epza_bola
			~
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement		HEA SP4	On Off
After measurement		SP2	Off
Load to viewer	On		
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off Off
segments		SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Pouting		Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1	5.4	Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	China mada	Ctandord
Orientation Phase enc. dir.	Transversal A >> P	Shim mode	Standard Off
		Adjust with body coil	
Rotation Phase oversampling	0.00 deg 0 %	Confirm freq. adjustment Assume Silicone	Off Off
FoV read	192 mm		0.000 V
		? Ref. amplitude 1H	
FoV phase Slice thickness	100.0 %	Adjustment Tolerance	Auto
TR	2.5 mm 4370 ms	Adjust volume Position	laggenter
TE			Isocenter
	40 ms 1	Orientation Rotation	Transversal
Averages Concatenations	1	Rotation R >> L	0.00 deg 192 mm
Filter	None	A >> P	192 mm
Coil elements		F >> H	192 mm
Con elements	HEA;HEP	г>>п	135 11111
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Long term Magnitude	Starting ignore meas	0
Measurements	150	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
1	311	Threshold	4.00
Resolution		Paradigm size	20
Base resolution	78	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
		Meas[16]	Active
Special sat.	None	Meas[17]	Active
System		Meas[18]	Active
<u> </u>		773/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

•	
Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast

\\USER\CMI\PhantomScanning\fbirnx\Resting State 2.5mm MB3 MGH w/FatHat

Properties	TA: 10:11 PAT: Off	Voxel size: 2.5×2.5×2.5 mm	•	p2d_bold_sms_mgh_v22
Filiphonesis	Properties			On
Prio Necon		~		Off
Before measurement		Off		Off
After measurement SP2				
Load to viewer	After measurement			
Inline move	Load to viewer	On		
Auto store images On	Inline movie	Off		
Load to Stamp segments Off SP1 Off Load images to graphic segments Off SP5 Off Auto open inline display Off Positioning mode REF Ituther preparation Table position 0 mm Wait for user to start Off Table position 0 mm Start measurements single MSMA S. C. T Start measurements single MSMA S. C. T Start measurements single MSMMA S. C. T Silice group 1 Silice group 1 Transversal A >> P Silice south 57 Transversal F.> H Obist, factor 0 % Action Coll Select Default Position Isoconter Auto Coll Select Default Phase enc., dir. A > P Adjust with body coil Off Phase oversampling 0 % Assume Silicon three, adjustment Off FoV read 192 mm Adjust with body coil Off FoV phase 190 ns Adjust with body coil Off <t< td=""><td>Auto store images</td><td>On</td><td></td><td></td></t<>	Auto store images	On		
Load images to graphic segments SP7	Load to stamp segments	Off		
Segments				
Auto pen inline display				
Start measurement without under preparation Wait for user to start Off Table position H Table position H Table position H Table position H Table position Omm Start measurements Single MSMA S - C - T Sagittal R >> L Cornal A >> P Transversal F >> H Cornal A >> P Transversal		Off	SP5	Off
further preparation Wait for user to start Start measurements Single MSMA S - C - T			Positioning mode	REE
Wait for user to start Start measurements Start measurements Single MSMA S - C - T		Oli		
Statt measurements	1	Off		
Routine				
Silice group 1	Start measurements	single		
Silce group 1	Routine			
Silices 57				
Dist. factor		57		
Position			Coil Combine Mode	Sum of Squares
Orientation Transversal Phase enc. dir. A >> P Adjust with body coil Off Standard Phase oversampling Phase oversampling Phase oversampling Pov read 192 mm ? Ref. amplitude 1H 0.00 0 V Assume Silicone Off Off Off Off Off Postion Adjustment Tolerance Auto Auto Adjustment Tolerance Auto Auto Adjust volume Test and tolerance Auto Adjust volume Auto Adjust volume Test and tolerance Auto Auto Adjust volume Auto			Auto Coil Select	Default
Phase enc. dir.			Chima manda	Oten dend
Rotation				
Phase oversampling 0 % Assume Silicone Off FoV read 192 mm ? Ref. amplitude 1H 0.000 V FoV phase 100.0 % Adjustment Tolerance Auto Silce thickness 2.5 mm Adjust volume TE TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio Thigh profession None None None MTC Off Starting ignore None Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Measurements				
FoV read				
FoV phase				
Slice thickness 2.5 mm		192 mm		0.000 V
TR 1570 ms Position Isocenter TE 40 ms Orientation Transversal Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast MTC Off 1st Signal/Mode None MTC Off 1st Signal/Mode None More Filip angle 90 deg BoLD BoLD Fat suppr. Fat sat. Fat sat. BoLD GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Off Off Reconstruction Magnitude Starting ignore meas 0 Off Off Measurements 370 Jone after transition 0 O On Resolution 78 Model transition states On On Treps- highpoas filter On No	FoV phase	100.0 %	Adjustment Tolerance	Auto
TE	Slice thickness	2.5 mm	Adjust volume	
TE	TR	1570 ms	Position	Isocenter
Averages 1 Rotation 0.00 deg Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Fall sauppr. Fat sat. BOLD Starling ignore Off Averaging mode Long term BOLD GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas partial Fourier Off Meas[1] Baseline Phase resolution 78 Meas[1] Baseline Phat mode <td></td> <td></td> <td>Orientation</td> <td>Transversal</td>			Orientation	Transversal
Concatenations 1 R >> L 192 mm Filter None A >> P 192 mm Coil elements BC F >> H 143 mm Contrast Physio MTC Off 1st Signal/Mode None Filipangle 90 deg BOLD Starting ignore Fat suppr. Fat sat. BOLD GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Multiple series Off Temp. highpass filter On Phase resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline Meas[4] Baseline </td <td></td> <td></td> <td></td> <td></td>				
Filter Coil elements None BC A ≫ P F F H 192 mm 143 mm Contrast Physio MTC Off Ist Signal/Mode None Flip angle Flip angle Fat suppr. 90 deg Fat sat. BOLD Averaging mode Reconstruction Magnitude Long term BSLD Averaging mode Reconstruction Magnitude Starting ignore meas 0 0 1 100 will prove after transition 0 100 will prove after transition 10 0 will	1			•
Contrast Physio MTC Off 1st Signal/Mode None Flip angle 90 deg BOLD Fat suppr. Fat sat. Averaging mode Long term BOLD GLM Statistics Off Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Paradigm size 20 Phase resolution 78 Paradigm size 20 Phase partial Fourier Off Meas[1] Baseline PAT mode None Meas[2] Baseline Metal Matrix Coil Mode Auto (CP) Meas[5] Baseline Distortion Corr. Off Meas[6] Baseline Prescan Normalize Off Meas[8] Baseline		•		-
Contrast Physio MTC Off 1st Signal/Mode None Filip angle 90 deg BOLD Fat suppr. Fat sat. BOLD Averaging mode Long term Dynamic t-maps Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Melip series Off Temp. highpass filter On Multiple series Off Temp. highpass filter On Threshold 4.00 Paradigm size 20 Base resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline Meas[4] Baseline Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[7] Baseline				-
MTC Off fst Signal/Mode None Flip angle 90 deg BOLD Fat suppr. Fat sat. BOLD Averaging mode Long term GLM Statistics Off Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Temp. highpass filter On Phase resolution 78 Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Meas[11] Active Meas[12] Active Meas[13] Active	1	50	ı	143 11111
Flip angle		Off		None
Fat suppr. Fat sat. SOLD			13t Olgridi/Wode	None
Averaging mode Long term Dynamic t-maps Off		•	BOLD	
Averaging mode Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Temp. highpass filter On Threshold 4.00 Paradigm size 20 Meas[1] Base resolution 100 % Meas[2] Baseline Meas[2] Baseline Meas[4] Baseline Meas[6] Baseline Meas[6] Baseline Meas[1] Active	rat suppr.	Fai Sai.	GLM Statistics	Off
Reconstruction Magnitude Starting ignore meas 0 Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Resolution 78 Threshold 4.00 Passe resolution 100 % Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline Meas[4] Baseline Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[5] Baseline Distortion Corr. Off Meas[6] Baseline Prescan Normalize Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Elliptical filter Off Meas[10] Baseline Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[14] Active </td <td>Averaging mode</td> <td>Long term</td> <td></td> <td></td>	Averaging mode	Long term		
Measurements 370 Ignore after transition 0 Delay in TR 0 ms Model transition states On Multiple series Off Temp. highpass filter On Threshold 4.00 Paradigm size 20 Base resolution 100 % Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[9] Baseline Meas[9] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Meas[12] Active Meas[13] Active Meas[13] Active Meas[14] Active Meas[14] Active Meas[15] Active Meas[16] Active	5 5	•		
Delay in TR Multiple series Off Resolution Resolution Base resolution 78 Phase resolution 100 % Phase partial Fourier Interpolation Off PAT mode Matrix Coil Mode Auto (CP) Distortion Corr. Off Prescan Normalize Off Resolution Coff Paramign Resolution Off Meas[1] Distortion Corr. Off Prescan Normalize Off Resolution Resolution 78 Phase resolution 100 % Paradigm size 20 Meas[2] Baseline Meas[3] Meas[4] Baseline Meas[4] Baseline Meas[6] Meas[7] Baseline Meas[7] Baseline Meas[9] Baseline Meas[10] Meas[11] Meas[12] Active Meas[13] Meas[13] Active Meas[13] Meas[14] Meas[15] Meas[16] Meas[16] Meas[17] Active Meas[17] Meas[17] Meas[17] Active Meas[17] Meas[17] Active				
Multiple seriesOffResolutionTemp. highpass filterOnBase resolution784.00Phase resolution100 %Meas[1]BaselinePhase partial FourierOffMeas[2]BaselineInterpolationOffMeas[3]BaselinePAT modeNoneMeas[4]BaselineMatrix Coil ModeAuto (CP)Meas[6]BaselineDistortion Corr.OffMeas[7]BaselinePrescan NormalizeOffMeas[8]BaselineRaw filterOnMeas[9]BaselineElliptical filterOffMeas[10]BaselineHammingOffMeas[11]ActiveGeometryMeas[12]ActiveMulti-slice modeInterleavedMeas[13]ActiveSeriesInterleavedMeas[15]ActiveSpecial sat.NoneMeas[17]Active				
Resolution Threshold 4.00 Base resolution 78 Paradigm size 20 Phase resolution 100 % Meas[1] Baseline Phase partial Fourier Off Meas[2] Baseline Interpolation Off Meas[3] Baseline PAT mode None Meas[4] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Meas[7] Baseline Meas[ne Meas[ne Prescan Normalize Off Meas[ne Meas[ne Meas[ne Prescan Normalize Off Meas[ne M	1			
Paradigm size 20	Manhe selles	OII		
Base resolution 78 Phase resolution 100 % Phase partial Fourier Off Interpolation Off Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[4] Baseline Meas[5] Baseline Matrix Coil Mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[7] Baseline Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Meas[18] Active Meas[18] Meas[18] Active	Resolution			
Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Meas[4] Baseline Meas[4] Baseline Meas[5] Baseline Meas[6] Baseline Meas[7] Baseline Meas[7] Baseline Meas[7] Baseline Meas[7] Baseline Meas[8] Baseline Meas[8] Baseline Meas[8] Baseline Meas[9] Baseline Meas[10] Baseline Meas[10] Baseline Meas[11] Active Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[18] Meas[18] Active	Base resolution	78		
Phase partial Fourier Off Meas[3] Baseline Interpolation Off Meas[4] Baseline PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[8] Baseline Prescan Normalize Off Meas[8] Baseline Raw filter On Meas[9] Baseline Elliptical filter Off Meas[10] Baseline Hamming Off 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[
Interpolation Off Meas[3] Baseline PAT mode None Meas[5] Baseline Matrix Coil Mode Auto (CP) Meas[6] Baseline Distortion Corr. Off Meas[8] Baseline Prescan Normalize Off Meas[9] Baseline Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[17] Active Meas[17] Active				
PAT mode	1		Meas[3]	Baseline
Matrix Coil Mode Auto (CP) Meas[6] Meas[7] Distortion Corr. Prescan Normalize Raw filter On Elliptical filter Hamming Off Meas[10] Meas[11] Meas[12] Meas[13] Multi-slice mode Series Interleaved Special sat. None Meas[12] Meas[14] Meas[15] Meas[16] Meas[17] Meas[17] Meas[17] Meas[18] Meas[1		OII 	Meas[4]	Baseline
Matrix Coil ModeAuto (CP)Meas[6]BaselineDistortion Corr.OffMeas[8]BaselinePrescan NormalizeOffMeas[9]BaselineRaw filterOnMeas[10]BaselineElliptical filterOffMeas[11]ActiveHammingOffMeas[12]ActiveGeometryMeas[13]ActiveMulti-slice modeInterleavedMeas[14]ActiveSeriesInterleavedMeas[15]ActiveSpecial sat.NoneMeas[17]Active	PAT mode	None	Meas[5]	Baseline
Distortion Corr. Off Prescan Normalize Off Raw filter On Meas[10] Baseline Elliptical filter Off Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[14] Active Meas[15] Active Meas[17] Meas[17] Active Meas[18] Active		Auto (CP)	Meas[6]	Baseline
Distortion Corr. Prescan Normalize Raw filter Con Elliptical filter Hamming Off Meas[10] Meas[11] Meas[11] Meas[12] Meas[12] Meas[13] Multi-slice mode Series Interleaved Series None Meas[15] Meas[16] Meas[17] Meas[17] Meas[18] Meas[18] Meas[10] Meas[10] Meas[11] Meas[12] Meas[12] Meas[13] Meas[13] Meas[14] Meas[15] Meas[15] Meas[16] Meas[17] Active Meas[17] Meas[17] Active				
Prescan Normalize Off Raw filter On Meas[10] Baseline Elliptical filter Off Meas[11] Active Hamming Off Meas[12] Active Geometry Meas[13] Active Meas[13] Active Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active	Distortion Corr.	Off		
Raw filter On Elliptical filter Meas[10] Baseline Hamming Off Meas[11] Active Geometry Meas[12] Active Multi-slice mode Interleaved Meas[13] Active Series Interleaved Meas[14] Active Meas[15] Active Meas[16] Active Meas[17] Active	Prescan Normalize	Off	= =	
Elliptical filter Off Meas[10] Active Hamming Off Meas[11] Active Geometry Meas[12] Active Meas[13] Active Meas[13] Active Meas[14] Active Series Interleaved Meas[15] Active Special sat. None Meas[17] Active Meas[17] Active Meas[18] Active Meas[18] Active Meas[18] Active	Raw filter	On		
Hamming Off Meas[12] Active Geometry Meas[13] Active Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Meas[15] Active Meas[16] Active Meas[17] Active Meas[17] Active Meas[17] Active Meas[17] Active	Elliptical filter			
Meas[12] Active	· ·			
Multi-slice mode Interleaved Meas[14] Active Series Interleaved Meas[15] Active Meas[16] Active Special sat. None Meas[17] Active				
Meas[15]	Geometry			
Series Interleaved Meas[15] Active Special sat. None Meas[16] Active Meas[17] Active		Interleaved		
Meas[16] Active Special sat. None Meas[17] Active				Active
Moorful Active				
System Meas[18] Active	Special sat.	ivone		
·	System		Meas[18]	Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Introduction	Off
Bandwidth	2374 Hz/Px
Free echo spacing	Off
Echo spacing	0.55 ms
EDI for at a m	70
EPI factor	78
RF pulse type	Normal
Gradient mode	Fast
Dummy Scans	4
Dummy Scans	4
SMS Factor	3
RF Clip	0
VERSE Factor	2.25
SMS Shift	1
Kernel Size	3x3
Compression Factor	1.00

\\USER\CMI\PhantomScanning\fbirnx\ep2d_bold_send_motion

TA: 0:11 PAT: 2 Voxel size: 3.0×3.0×10.0 mm Rel. SNR: 1.00 USER: ep2d_bold_send_motion

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement		HEP	On
Load to viewer	On O"	HEA	On
Inline movie	Off		
Auto store images	On O"	Positioning mode	REF
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	0 mm
segments	0"	MSMA	S - C - T
Auto open inline display	Off	Sagittal	R >> L
Start measurement without	On	Coronal	A >> P
further preparation	0#	Transversal	F >> H
Wait for user to start	Off	Coil Combine Mode	Sum of Squares
Start measurements	single	Auto Coil Select	Default
Routine		Shim mode	Standard
Slice group 1		Adjust with body coil	Off
Slices	9	Confirm freq. adjustment	Off
Dist. factor	100 %	Assume Silicone	Off
Position	Isocenter	? Ref. amplitude 1H	0.000 V
Orientation	Transversal	Adjustment Tolerance	Auto
Phase enc. dir.	A >> P	Adjust volume	
Rotation	0.00 deg	Position	Isocenter
Phase oversampling	0 %	Orientation	Transversal
FoV read	192 mm	Rotation	0.00 deg
FoV phase	100.0 %	R >> L	192 mm
Slice thickness	10.0 mm	A >> P	192 mm
TR	359 ms	F >> H	170 mm
ŢE	12 ms	Physio	
Averages	1	1st Signal/Mode	None
Concatenations	1		None
Filter	None	BOLD	
Coil elements	HEA;HEP	GLM Statistics	On
Contrast		Dynamic t-maps	Off
MTC	Off	Starting ignore meas	0
Flip angle	90 deg	Ignore after transition	0
Fat suppr.	Fat sat.	Model transition states	On
		Temp. highpass filter	On
Averaging mode	Long term	Threshold	4.00
Reconstruction	Magnitude	Paradigm size	20
Measurements	20 0 ms	Meas[1]	Baseline
Delay in TR	0 ms Off	Meas[2]	Baseline
Multiple series	Oli	Meas[3]	Baseline
Resolution		Meas[4]	Baseline
Base resolution	64	——— Meas[5]	Baseline
Phase resolution	100 %	Meas[6]	Baseline
Phase partial Fourier	Off	Meas[7]	Baseline
Interpolation	Off	Meas[8]	Baseline
DAT mode		Meas[9]	Baseline
PAT mode	GRAPPA	Meas[10]	Baseline Activo
Accel. factor PE Ref. lines PE	2	Meas[11]	Active
	24 Auto (Triplo)	Meas[12]	Active
Matrix Coil Mode	Auto (Triple)	Meas[13]	Active
Reference scan mode	Separate	Meas[14]	Active
Distortion Corr.	Off	Meas[15]	Active
Prescan Normalize	Off	Meas[16]	Active
Raw filter	On	Meas[17]	Active
Elliptical filter	Off	Meas[18]	Active
Hamming	Off	Meas[19]	Active
•		Meas[20]	Active
Geometry		Motion correction	On OD 16
M. III alias! -			
Multi-slice mode Series	Interleaved Interleaved	Interpolation Spatial filter	3D-K-space Off

Introduction Bandwidth Free echo spacing Echo spacing	Off 2442 Hz/Px Off 0.49 ms
EPI factor RF pulse type Gradient mode	64 Normal Fast

TA: 0:13

SIEMENS: gre

			- 5 -
Properties		Phase partial Fourier Interpolation	Off Off
Prio Recon	Off		
Before measurement After measurement		PAT mode Matrix Coil Mode	None Auto (CP)
Load to viewer	On		
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	On	Prescan Normalize	Off
	Off	Normalize	On
Load images to graphic	Oli	Intensity	Medium
segments	•	Cut off	20
Auto open inline display	Off	Width	4
Start measurement without	Off	Unfiltered images	Off
further preparation		B1 filter	Off
Wait for user to start	Off	Raw filter	On
Start measurements	single		_
Desetion		Intensity	Weak
Routine		Slope	25
Slice group 1		Elliptical filter	Off
Slices	3	Geometry	
Dist. factor	20 %	Multi-slice mode	Sequential
Position	Isocenter	Series	
Orientation	Sagittal	Series	Ascending
Phase enc. dir.	A >> P	Saturation mode	Standard
Rotation	0.00 deg	Special sat.	None
Slice group 2	5 1 1 1 9		
Slices	3	Tim CT mode	
Dist. factor	20 %	Tim CT mode	Off
Position	Isocenter	System	
		Body	Off
Orientation	Coronal	HEP	On
Phase enc. dir.	R >> L	HEA	On
Rotation	0.00 deg		
Slice group 3		Positioning mode	REF
Slices	3	Table position	Н
Dist. factor	20 %	Table position	0 mm
Position	Isocenter	MSMA	S - C - T
Orientation	Transversal	Sagittal	R >> L
Phase enc. dir.	R >> L	Coronal	A >> P
Rotation	90.00 deg		
Phase oversampling	0 %	Transversal	F >> H
FoV read	280 mm	Save uncombined	Off
FoV phase	100.0 %	Coil Combine Mode	Adaptive Combine
Slice thickness	8.0 mm	Auto Coil Select	Default
		Shim mode	Tune up
TR	8.9 ms		Off
ŢĒ	4.32 ms	Adjust with body coil	_
Averages	1	Confirm freq. adjustment	Off
Concatenations	9	Assume Silicone	Off
Filter	Raw filter, Normalize	? Ref. amplitude 1H	0.000 V
Coil elements	HEA;HEP	Adjustment Tolerance	Auto
Contrast		Adjust volume	Incontor
TD	0 ms	Position	Isocenter
MTC	Off	Orientation	Transversal
Magn. preparation	None	Rotation	0.00 deg
		R >> L	350 mm
Flip angle	40 deg	A >> P	263 mm
Fat suppr.	None	F >> H	350 mm
Water suppr.	None	Physio	
Averaging mode	Short term	Physio	Nana
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Segments	1
	Off	Tagging	None
Multiple series	OII	Dark blood	Off
Resolution			OII
Base resolution Phase resolution	192 75 %	Resp. control	Off

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

Coquonico				
Introduction	On			
Dimension	2D			
Phase stabilisation	Off			
Asymmetric echo	Off			
Contrasts	1			
Bandwidth	180 Hz/Px			
Flow comp.	No			
RF pulse type	Normal			
Gradient mode	Fast			
Excitation	Slice-sel.			
RF spoiling	On			

\\USER\CMI\PhantomScanning\DTIphantom\Diff Calibration

TA: 1:04 PA		2.0×5.0 mm Rel. SNR: 1.00 SIE	MENS: ep2d_diff
Properties		System	
Prio Recon	Off	Body	Off
Before measurement		HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
Auto store images	On	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments		SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation			
Wait for user to start	Off	Positioning mode	REF
Start measurements	single	Table position	Н
	S .	Table position	0 mm
Routine		MSMA	S-C-T
Slice group 1		Sagittal	R >> L
Slices	8	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Coil Combine Mode	Sum of Squares
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
FoV read	256 mm	Assume Silicone	Off
FoV phase	100.0 %	? Ref. amplitude 1H	0.000 V
Slice thickness	5.0 mm	Adjustment Tolerance	Auto
TR	8000 ms	Adjust volume	Auto
TE	97 ms	Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >> L	256 mm
Coil elements	HEA;HEP	A >> P	256 mm
Contrast		F >> H	40 mm
MTC	Off		40 111111
Magn. preparation	None	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
		Resp. control	Off
Averaging mode	Long term		0.11
Reconstruction	Magnitude	Diff	
Delay in TR	0 ms	Diffusion mode	Read
Resolution		Diff. weightings	5
Base resolution	128	b-value 1	0 s/mm²
Phase resolution	100 %	b-value 2	300 s/mm²
Phase partial Fourier	6/8	b-value 3	900 s/mm²
Interpolation	Off	b-value 4	1500 s/mm²
		b-value 5	2000 s/mm ²
PAT mode	GRAPPA	Diff. weighted images	On
Accel. factor PE	2	Trace weighted images	Off
Ref. lines PE	32	Average ADC maps	Off
Matrix Coil Mode	Auto (Triple)	Individual ADC maps	On
Reference scan mode	Separate	FA maps	Off
Distortion Corr.	Off	Mosaic	Off
		Tensor	Off
Prescan Normalize Raw filter	Off Off	Noise level	40
		Diff. directions	1
Elliptical filter	Off Off	Saguence	
Hamming	OII	Sequence Introduction	Off
Geometry		Bandwidth	1698 Hz/Px
Multi-slice mode	Interleaved		Off
Series	Interleaved	Free echo spacing Echo spacing	0.69 ms
Special sat.	None		
		EPI factor	128

RF pulse type Gradient mode

Normal Fast

\\USER\CMI\PhantomScanning\DTIphantom\DWI B=0 PA - AX PAT: Off Voxel size: 2.0×2.0×2.0 mm TA: 0:16 Rel. SNR: 1.00 USER: cmrr_mbep2d_diff Special sat. None **Properties** System Prio Recon Off On Before measurement Body After measurement HEP Off Off Load to viewer On HEA Off SP4 Off Inline movie Auto store images On SP2 Off

Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	REF
otal i mododiomonto	Sirigio	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg	·····	
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
	_	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	Adio
Multi-band accel. factor	3	Position	Isocenter
Filter	None		
Coil elements	BC	Orientation	Transversal
• • •		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physic	
Refocus flip angle	180 deg	Physio	None
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude	b-value	0 s/mm²
Measurements	1	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off		Off
Resolution		Average ADC maps	
	06	Individual ADC maps	Off Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
	None	Coguence	
Matrix Coil Mode	Auto (CP)	Sequence	0"
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
	Off	Echo spacing	0.72 ms
Elliptical filter Hamming		CDI factor	06
	Off	EPI factor	96
Hamming			Fast
3		Gradient mode	
Geometry	Interleaved	RF spoiling	Off
Geometry Multi-slice mode	Interleaved	RF spoiling	Off
Geometry	Interleaved Interleaved		

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\PhantomScanning\DTIphantom\DKI 64 Directions AP 3 WEIGHTS- AX TA: 7:50 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	Oli	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
	Oli	SP3	Off
segments	0#	SP1	
Auto open inline display	Off		Off
Start measurement without	On	SP7	Off
further preparation	0"	SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position			A >> P F >> H
	Isocenter	Transversal Coil Combine Mode	
Orientation	Transversal		Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm		0.000 V
TR	3533 ms	? Ref. amplitude 1H	
TE	93.8 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
ı		Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
Averaging mode	Long torm	Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	3
Reconstruction	Magnitude	b-value 1	0 s/mm²
Measurements	1	b-value 2	1000 s/mm²
Delay in TR	0 ms	b-value 3	2000 s/mm²
Multiple series	Off	Diff. weighted images	On
Resolution		Trace weighted images	On
Base resolution	96	Average ADC maps	Off
Phase resolution	100 %	Individual ADC maps	Off
	6/8	•	Off
Phase partial Fourier		FA maps	_
Interpolation	Off	Mosaic	On O#
PAT mode	None	Tensor	Off
Matrix Coil Mode	Auto (CP)	Noise level	40
		Diff. directions	64
Distortion Corr.	Off	Sequence	
Prescan Normalize	Off	Introduction	Off
Raw filter	On	Bandwidth	1628 Hz/Px
Elliptical filter	Off	Free echo spacing	Off
Hamming	Off		
		Echo spacing	0.72 ms
Geometry		EPI factor	96
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	Off
1			

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off Online multi-band recon. Online

1.00

Off

FFT scale factor

Physio recording

\\USER\CMI\PhantomScanning\DTIphantom\DWI B=0 PA- AX

TA: 0:16 PAT: O	off Voxel size: 2.0×2.	.0×2.0 mm Rel. SNR: 1.00 USEI	R: cmrr_mbep2d_diff
Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Docitioning made	EIV
Start measurements	single	Positioning mode	FIX
Routine		Table position	H 0 mm
		Table position	0 mm
Slice group 1	70	MSMA Societal	S-C-T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	, 1010
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	l	
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term		МООVV 1
Reconstruction	Magnitude	Diff. weightings b-value	0 s/mm ²
Measurements	1		* *********
Delay in TR	0 ms	Diff. weighted images	On Off
Multiple series	Off	Trace weighted images	Off
•		Average ADC maps	Off
Resolution Resolution	06	Individual ADC maps	Off
Base resolution	96	FA maps	Off Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
Matrix Coil Mode	Auto (CP)	Sequence	
		Introduction	Off
Distortion Corr.	Off	Bandwidth	1628 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	96
eometry		Gradient mode	Fast
Seometry Multi-plice mode	Interlogued	RF spoiling	Off
Multi-slice mode	Interleaved		2560 up
Series	Interleaved	Excite pulse duration	2560 us 5120 us
		RAIDERS DURS ATTEND	

Refocus pulse duration

5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\PhantomScanning\DTIphantom\DWI B=0 AP- AX

		Special sat.	None
Properties	0 "	<u> </u>	None
Prio Recon	Off	System	0.5
Before measurement		Body	On O#
After measurement	0	HEP	Off
Load to viewer	On O"	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	R >> L	Auto Coil Select	Default
Rotation	90.00 deg	Auto Coli Select	
	90.00 deg 0 %	Shim mode	Standard
Phase oversampling		Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	Addo
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	90.00 deg
Contrast		A >> P	192 mm
MTC	Off		192 mm
Magn. preparation	None	F >> H	144 mm
•		F >> 11	144 111111
Flip angle Refocus flip angle	90 deg	Physio	
	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	D:#	
Grad. rev. fat suppr.	Enabled	Diff	MDDW
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On
Multiple series	Off	Trace weighted images	Off
•	=	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
	Nono	Diff. directions	64
PAT mode	None	Coguence	
Matrix Coil Mode	Auto (CP)	Sequence	0"
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off	Echo spacing	0.72 ms
		EPI factor	06
Hamming	Off		96 Foot
Geometry		Gradient mode	Fast
Multi-slice mode	Interleaved	RF spoiling	Off
Series	Interleaved	Excite pulse duration	2560 us
		Refocus pulse duration	5120 us

Refocus pulse duration

5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramb	ole Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band rec	on. Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\PhantomScanning\DTIphantom\Siemens DKI

TA: 27:04 PAT: 2 Voxel size: 1.5x1.5x2.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Droportion		Special sat.	None
Properties Prio Recon	Off	.	
Before measurement	Oii	System	
After measurement		Body	Off
Load to viewer	On	HEP	On
Inline movie	Off	HEA	On
Auto store images	On	SP4	Off
Load to stamp segments	Off	SP2	Off
Load images to graphic	Off	SP8	Off
segments	5	SP6	Off
Auto open inline display	Off	SP3	Off
Start measurement without	On	SP1	Off
further preparation	.	SP7	Off
Wait for user to start	Off	SP5	Off
Start measurements	single	Positioning mode	REF
Danting		Table position	H
Routine		Table position	0 mm
Slice group 1	70	MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir. Rotation	A >> P 0.00 deg	Auto Coil Select	Default
Phase oversampling	0.00 deg 0 %	Obine and de	04
FoV read	192 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off Off
Slice thickness	2.0 mm	Confirm freq. adjustment Assume Silicone	Off
TR	12300 ms	? Ref. amplitude 1H	0.000 V
TE	101 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	Auto
Concatenations	1	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
1	,	R >> L	192 mm
Contrast	0"	A >> P	192 mm
MTC Mary propagation	Off None	F >> H	144 mm
Magn. preparation	Fat sat.	Dhysis	
Fat suppr.	rai sai.	Physio	Nege
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude	Resp. control	Off
Delay in TR	0 ms	Diff	
Multiple series	Off	Diffusion mode	MDDW
Resolution		Diff. weightings	3
Base resolution	128	b-value 1	0 s/mm²
Phase resolution	100 %	b-value 2	1000 s/mm²
Phase partial Fourier	6/8	b-value 3	2000 s/mm²
Interpolation	Off	Diff. weighted images	On
		Trace weighted images	On
PAT mode	GRAPPA	Average ADC maps	On
Accel. factor PE	2	Individual ADC maps	Off
Ref. lines PE	32	FA maps	On
Matrix Coil Mode	Auto (Triple)	Mosaic	Off
Reference scan mode	Separate	Tensor	Off
Distortion Corr.	Off	Noise level	40
Prescan Normalize	Off	Diff. directions	64
Raw filter	On	Soguence	
Elliptical filter	Off	Sequence	Off
Hamming	Off	Introduction Bandwidth	Οπ 1628 Hz/Px
Geometry			Off
Multi-slice mode	Interleaved	Free echo spacing Echo spacing	0.78 ms
Series	Interleaved	EPI factor	128

RF pulse type Gradient mode Normal Fast

\\USER\CMI\PhantomScanning\headphone\t1_mpr_ns_sag_p2_iso

TA: 2:54	PAT: 2 Voxel size: 2.0×2.0×	2.0 mm Rel. SNR: 1.00	SIEMENS: tfl
Proportion		Unfiltered images	Off
Properties	0"	- Prescan Normalize	On
Prio Recon	Off	Normalize	Off
Before measurement		B1 filter	Off
After measurement	_	Raw filter	Off
Load to viewer	On	Elliptical filter	On
Inline movie	Off	Mode	Inplane
Auto store images	On	Mode	прапе
Load to stamp segments	Off	Geometry	
Load images to graphic	Off	Multi-slice mode	Single shot
segments		Series	Ascending
Auto open inline display	Off		
Start measurement without	On	System	
further preparation	.	Body	Off
Wait for user to start	Off	HE2	On
Start measurements	single	HE4	On
Start measurements	Sirigie		_
Routine		HE1	On
Slab group 1		- HE3	On
Slabs	1	Positioning mode	REF
Dist. factor	50 %	Table position	H
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	MSMA	S - C - T
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg		A >> P
Phase oversampling	25 %	Coronal	
		Transversal	F >> H
Slice oversampling	27.3 %	Save uncombined	Off
Slices per slab	176	Coil Combine Mode	Adaptive Combine
FoV read	256 mm	Auto Coil Select	Default
FoV phase	100.0 %	Shim mode	Tune up
Slice thickness	2.00 mm		Off
TR	1900 ms	Adjust with body coil	
TE	2.65 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	Prescan Normalize, Elliptical	Adjustment Tolerance	Auto
	filter	Adjust volume	
Coil elements	HE1-4	Position	Isocenter
I		Orientation	Transversal
Contrast		Rotation	0.00 deg
Magn. preparation	Non-sel. IR	R >> L	350 mm
TI	1100 ms	A >> P	263 mm
Flip angle	15 deg	F >> H	350 mm
Fat suppr.	None	l Di :	
Water suppr.	None	Physio	
		1st Signal/Mode	None
Averaging mode	Long term	Dark blood	Off
Reconstruction	Magnitude		
Measurements	1	Resp. control	Off
Multiple series	Off	latin a	
Resolution		Inline	0"
	100	Subtract	Off
Base resolution	128	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Cor	Off
Slice resolution	50 %	Std-Dev-Tra	Off
Phase partial Fourier	Off	Std-Dev-Time	Off
Slice partial Fourier	Off	MIP-Sag	Off
Interpolation	Off	MIP-Cor	Off
PAT mode	CDADDA	MIP-Tra	Off
	GRAPPA	MIP-Time	Off
Accel. factor PE	2	Save original images	On
Ref. lines PE	24		
Matrix Coil Mode	Auto (Triple)	Sequence	
Reference scan mode	Integrated	Introduction	On
Image Filter	Off	Dimension	3D
Distortion Corr.	Off	Elliptical scanning	Off
DISTOLLION CON.	Oil	Asymmetric echo	Allowed
		1	

Bandwidth Flow comp.	130 Hz/Px No
Echo spacing	7.6 ms
RF pulse type Gradient mode Excitation RF spoiling	Fast Fast Non-sel. On

 $\verb|\USER\CMI\PhantomScanning\test_moco\localizer| \\$

TA: 0:26 PAT: Off Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00 SIEMENS: gre			
Proportion		Phase resolution	75 %
Properties Prio Recon	Off	 Phase partial Fourier 	Off
Before measurement	Oii	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off		Auto (Or)
Auto store images	On	Image Filter	Off
Load to stamp segments	Off	Distortion Corr.	Off
Load images to graphic	Off	Unfiltered images	Off
segments	3II	Prescan Normalize	On
Auto open inline display	Off	Normalize	Off
Start measurement without	Off	B1 filter	Off
further preparation	Oli	Raw filter	Off
Wait for user to start	Off	Elliptical filter	On
Start measurements	single	Mode	Inplane
	Single	Geometry	
Routine		Geometry - Multi-slice mode	Seguential
Slice group 1		Series	Interleaved
Slices	3	351153	
Dist. factor	300 %	Saturation mode	Standard
Position	Isocenter	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	ı	
Slice group 2		System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	Isocenter	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Slice group 3		SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	Isocenter	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %		R >> L
Slice thickness	8.0 mm	Sagittal Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical	Auto Coil Select	Delauli
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
	•	Confirm freq. adjustment	Off
Contrast		_ Assume Silicone	Off
TD	0 ms	? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	I	
•	On .	Physio	Name
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1

Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	Off Off Off Off Off Off Off Off Off
MIP-Tra MIP-Time Save original images	Off Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts	On 2D Off Allowed 1
Bandwidth Flow comp.	290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\PhantomScanning\test_moco\ep2d_bold_send_motion

Properties Prio Recon Before measurement After measurement Load to viewer			ep2d_bold_send_motion
Prio Recon Before measurement After measurement		Body	On
Before measurement After measurement	Off	- HEP	Off
After measurement	Oli	HEA	Off
		SP4	Off
Load to viewer	0.5	SP2	Off
1 12	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
I	g2	Sagittal	R >> L
Routine		- Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	12	Coil Combine Mode	Sum of Squares
Dist. factor	50 %	Auto Coil Select	Default
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
FoV read	190 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.0 mm	Adjust volume	
TR	658 ms	Position	Isocenter
TE	20 ms	Orientation	Transversal
Averages	1	Rotation	0.00 deg
Concatenations	1	R >> L	190 mm
Filter	None	A >> P	190 mm
Coil elements	BC	F >> H	175 mm
Contrast		Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	90 deg	BOLD	
Fat suppr.	Fat sat.		
		GLM Statistics	On O"
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	20	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
RESOURION	64	- Paradigm size	20
	64	Meas[1]	Baseline
Base resolution	100 %	Meas[2]	Baseline
Base resolution Phase resolution			
Base resolution	Off		Baseline
Base resolution Phase resolution		Meas[3]	Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation	Off Off	Meas[3] Meas[4]	Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode	Off Off None	Meas[3] Meas[4] Meas[5]	Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation	Off Off	Meas[3] Meas[4] Meas[5] Meas[6]	Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode	Off Off None Auto (CP)	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7]	Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr.	Off Off None Auto (CP)	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize	Off Off None Auto (CP) Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter	Off Off None Auto (CP) Off Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter	Off Off None Auto (CP) Off Off Off On Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter	Off Off None Auto (CP) Off Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming	Off Off None Auto (CP) Off Off Off On Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off Off None Auto (CP) Off Off Off On Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	Off Off Off None Auto (CP) Off Off Off On Off Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off Off None Auto (CP) Off Off Off On Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] - Meas[14] Meas[15]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode	Off Off Off None Auto (CP) Off Off Off On Off Off Off	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Matrix Coil Mode Distortion Corr. Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode Series	Off Off None Auto (CP) Off Off Off On Off Off Off Interleaved Interleaved	Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] - Meas[14] Meas[15]	Baseline Baseline Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Sequence

1	
Introduction	Off
Bandwidth	2442 Hz/Px
Free echo spacing	Off
Echo spacing	0.48 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\CMI\HumanPhantom\Human_Phantom\Abdomen Localizer

SIEMENS: gre

PAT: Off Voxel size: 2.0×1.6×7.0 mm Rel. SNR: 1.00

TA: 0:31

1A. U.S1 F	AT. OII VOXEI SIZE. 2.0x1.6x	7.0 IIIII Rei. SNR. 1.00	SIEWENS. gre
		Dhace resolution	90 º/
Properties		Phase resolution	80 % Off
Prio Recon	Off	Phase partial Fourier Interpolation	On On
Before measurement			OII
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Imaga Filtor	
Auto store images	On	Image Filter	Off
Load to stamp segments	On	Distortion Corr.	On 2D
Load images to graphic	Off	Mode	2D Off
segments		Unfiltered images Prescan Normalize	Off
Auto open inline display	Off	Normalize	Off
Start measurement without	Off	B1 filter	Off
further preparation		Raw filter	Off
Wait for user to start	Off	Elliptical filter	On
Start measurements	single	Mode	Inplane
Routine		Mode	прыне
Slice group 1		Geometry	
Slice group 1	3	Multi-slice mode	Sequential
Dist. factor	50 %	Series	Interleaved
Position	Isocenter	Saturation mode	Standard
Orientation	Transversal		None
Phase enc. dir.	A >> P	Special sat.	INOTIC
Rotation	0.00 deg	Tim CT	O#
Slice group 2	5.55 dog	Tim CT mode	Off
Slices	3	System	
Dist. factor	50 %	Body	Off
Position	Isocenter	BO1	On
Orientation	Coronal	BO2	On
Phase enc. dir.	R >> L	SP4	On
Rotation	0.00 deg	SP2	On
Slice group 3	5.00 409	SP8	Off
Slices	3	SP6	Off
Dist. factor	50 %	SP3	On
Position	L21.0 P0.0 H0.0	SP1	Off
Orientation	Sagittal	SP7	Off
Phase enc. dir.	A >> P	SP5	Off
Rotation	0.00 deg	Dogitioning mode	180
Phase oversampling	13 %	Positioning mode	ISO
FoV read	400 mm	Table position	H 0 mm
FoV phase	100.0 %	Table position MSMA	0 mm S - C - T
Slice thickness	7.0 mm	Sagittal	S - C - 1 R >> L
TR	7.0 ms	Coronal	K >> L A >> P
TE	2.60 ms	Transversal	H >> F
Averages	2	Save uncombined	Off
Concatenations	9	Coil Combine Mode	Adaptive Combine
Filter	Distortion Corr.(2D), Elliptical	Auto Coil Select	Default
	filter		
Coil elements	BO1,2;SP2-4	Shim mode	Tune up
1		Adjust with body coil	Off
Contrast	0.ma	Confirm freq. adjustment	Off
TD	0 ms	Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
Magn. preparation	None	Adjustment Tolerance	Auto
Flip angle	20 deg	Adjust volume	
Fat suppr.	None	Position	Isocenter
Water suppr.	None	Orientation	Transversal
Averaging mode	Short term	Rotation	0.00 deg
Reconstruction	Magnitude	R >> L	350 mm
Measurements	1	A >> P	263 mm
Multiple series	Off	F >> H	350 mm
1	~ · ·	Physic	
Resolution		Physio 1st Signal/Mode	None
Base resolution	256	1st Signal/Mode	None 1
		Segments	ı

Tagging Dark blood	None Off
Resp. control	Off
Inline	0"
Subtract Liver registration	Off Off
Liver registration 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
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI MIP - time	Off Off
MIP - time	Oli
Sequence	
Introduction	On
Dimension	2D Off
Phase stabilisation Asymmetric echo	Allowed
Contrasts	1
Bandwidth	290 Hz/Px
Flow comp.	No
RF pulse type	Fast
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
•	

\\USER\CMI\HumanPhantom\Human_Phantom\Abdomen Dixon Breathhold

TA: 0:11 PA	T: 2 Voxel size: 2.2×1.6×5.0	mm Rel. SNR: 1.00 SIE	MENS: fl3d_vibe
Properties		Distortion Corr.	On
Prio Recon	Off	- Mode	2D
Before measurement	OII	Unfiltered images	Off
After measurement		Unfiltered images	Off
Load to viewer	On	Prescan Normalize	On
		Normalize	Off
Inline movie	Off	B1 filter	Off
Auto store images	On	Raw filter	Off
Load to stamp segments	On	Elliptical filter	Off
Load images to graphic	Off	POCS	Off
segments		ļ	
Auto open inline display	On	Geometry	
Start measurement without	On	Multi-slice mode	Sequential
further preparation		Series	Ascending
Wait for user to start	Off		
Start measurements	single	Special sat.	Parallel F/H
	3 3	Gap	10.0 mm
Routine		Thickness	60 mm
Slab group 1			
Slabs	1	System	
Dist. factor	20 %	Body	Off
Position	Isocenter	BO1	On
Orientation	Transversal	BO2	On
Phase enc. dir.	A >> P	SP4	Off
Rotation	0.00 deg	SP2	On
Phase oversampling	0 %	SP8	Off
Slice oversampling	0.0 %	SP6	Off
Slices per slab	40	SP3	On
FoV read	400 mm	SP1	Off
	78.1 %		_
FoV phase		SP7	Off
Slice thickness	5.00 mm	SP5	Off
TR	6.82 ms	Positioning mode	ISO
TE 1	2.38 ms	Table position	Н
TE 2	4.76 ms	Table position	0 mm
Averages	1	MSMA	S - C - T
Concatenations	1		
Filter	Distortion Corr.(2D), Prescan	Sagittal	R >> L
	Normalize	Coronal	A >> P
Coil elements	BO1,2;SP2,3	Transversal	H >> F
		Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
Flip angle	10.0 deg	Auto Coil Select	Default
Fat suppr.	None	Chim made	Ctandard
Water suppr.	None	Shim mode	Standard
Dixon	Water + fat images	Adjust with body coil	Off
Save original images	On	Confirm freq. adjustment	Off
		Assume Silicone	Off
Averaging mode	Short term	? Ref. amplitude 1H	0.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	
Multiple series	Off	Position	Isocenter
Resolution		Orientation	Transversal
	050	- Rotation	0.00 deg
Base resolution	256	R >> L	400 mm
Phase resolution	70 %	A >> P	313 mm
Slice resolution	60 %	F >> H	200 mm
Phase partial Fourier	Off	1	
Slice partial Fourier	6/8	Physio	
Interpolation	Off	1st Signal/Mode	None
DAT	OD A DD A		
PAT mode	GRAPPA	Resp. control	Breath-hold
Accel. factor PE	2	Inline	
Ref. lines PE	24	3D centric reordering	Off
Matrix Coil Mode	Auto (Triple)		_
Reference scan mode	Integrated	Time to center	5.2 s
Imaga Filtor	Off	Subtract	Off
Image Filter	Oii	Liver registration	Off
		301/+	

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
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
•	

Sequence

0	quonoo	
	Introduction	Off
	Dimension	3D
	Elliptical scanning	Off
	Asymmetric echo	Strong
	Contrasts	2
	Bandwidth 1	480 Hz/Px
	Bandwidth 2	480 Hz/Px
	Readout mode	Monopolar
	Optimization	In phase
	RF pulse type	Fast
	Gradient mode	Fast
	Excitation	Slab-sel.
	RF spoiling	On

\\USER\CMI\\HumanPhantom\\Human_Phantom\\Brain Localizer

Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00

SIEMENS: gre

PAT: Off

TA: 0:26

Properties		Phase resolution	75 %
Properties	0"	Phase partial Fourier	Off
Prio Recon	Off	Interpolation	On
Before measurement			
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments		Normalize	Off
Auto open inline display	Off		Off
Start measurement without	On	B1 filter	
further preparation		Raw filter	Off
Wait for user to start	On	Elliptical filter	On
Start measurements	single	Mode	Inplane
Pouting		Geometry	
Routine		- Multi-slice mode	Sequential
Slice group 1	2	Series	Interleaved
Slices	3		
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	System	
Slice group 2		Body	Off
Slices	3	HEP	On
Dist. factor	300 %	HEA	On
Position	L0.0 A25.1 F0.7	SP4	Off
Orientation	Transversal	SP2	Off
Phase enc. dir.	A >> P		
Rotation	0.00 deg	SP8	Off
Slice group 3		SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical	Auto Coii Seiect	Delauli
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off .
_	,	Confirm freq. adjustment	Off
Contrast		Assume Silicone	Off
TD	0 ms	? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short torm	R >> L	350 mm
Averaging mode	Short term	A >> P	263 mm
Reconstruction	Magnitude	F >> H	350 mm
Measurements	1	ı	500 mm
Multiple series	Off	Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1
i -			

Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	Off Off Off Off Off Off Off Off Off
MIP-Tra MIP-Time Save original images	Off Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts	On 2D Off Allowed 1
Bandwidth Flow comp.	290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\HumanPhantom\Human_Phantom\Motion Training

TA: 1:35 PAT: Off	Voxel size: 3.0×3.0×	<10.0 mm Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
	Oli	HEA	Off
Before measurement		SP4	Off
After measurement	0	SP2	Off
Load to viewer	On O"	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Routine		Sagittal	R >> L
		Coronal	A >> P
Slice group 1	0	Transversal	F >> H
Slices	9	Coil Combine Mode	Sum of Squares
Dist. factor	100 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.00 mm	Adjust volume	
TR	130 ms	Position	Isocenter
TE	7.94 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	BC	A >> P	192 mm
Contrast		F >> H	170 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg		
Fat suppr.	Fat sat.	BOLD	
. асовре			Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	700	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	64	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
		Meas[2]	Baseline
Phase partial Fourier	5/8	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		······ Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[11]	Active
Goomotry		Meas[12]	Active
Geometry	Interior:	Meas[13]	Active
Multi-slice mode	Interleaved		Active
Series	Interleaved	Meas[15]	Active
Special sat.	None	Meas[16]	
	. 10110	Meas[17]	Active
System	<u></u>	Meas[18]	Active
		305/+	

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Sequence

Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2442 Hz/Px No Off 0.51 ms
EPI factor Gradient mode RF spoiling	64 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble Invert RO/PE polarity PF omits higher k-space Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\\HumanPhantom\\Human_Phantom\\Brain Localizer PAT: Off Voxel size: 1.4×1.0×8.0 mm Rel. SNR: 1.00 SIEM

SIEMENS: gre

TA: 0:26

TA. 0.20 P	A1. OII VOXEI SIZE. 1.4x1.0x	to.0 IIIII Rei. SNR. 1.00	SIEMENS. gre
		Phase resolution	75.0/
Properties		Phase resolution	75 % Off
Prio Recon	Off	- Phase partial Fourier	On On
Before measurement		Interpolation	
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Imaga Filtor	Off
Auto store images	On	Image Filter Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments		Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	On	Raw filter	Off
further preparation		Elliptical filter	On
Wait for user to start	On	Mode	Inplane
Start measurements	single	0	•
Routine		Geometry - Multi-slice mode	Cognostial
Slice group 1		Series	Sequential Interleaved
Slices	3		
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	System	
Slice group 2	0	Body	Off
Slices	3	HEP	On
Dist. factor Position	300 % L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
Rotation	0.00 deg	SP8	Off
Slice group 3	0.00 deg	SP6	Off
Slices	3	SP3	Off
Dist. factor	300 %	SP1	Off
Position	L0.0 A25.1 F0.7	SP7	Off
Orientation	Coronal	SP5	Off
Phase enc. dir.	R >> L	Dogitioning mode	REF
Rotation	0.00 deg	Positioning mode Table position	H
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil Confirm freq. adjustment	Off Off
Contrast		Assume Silicone	Off
TD	0 ms	? Ref. amplitude 1H	0.000 V
MTC	Off	Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	, 1310
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	Physic	
-		Physio	None
Resolution	050	1st Signal/Mode Segments	None 1
Base resolution	256		1

Tagging Dark blood	None Off
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	Off
MIP-Time Save original images	Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence	
Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\HumanPhantom\Human_Phantom\Resting State 2.5mm

TA: 10:18 PAT: O	ff Voxel size: 2.5×2.5×2.5 mm	Rel. SNR: 1.00 USE	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oll	HEA	On
After measurement		SP4	Off
	On	SP2	Off
Load to viewer	On Off	SP8	Off
Inline movie	Off	SP6	Off
Auto store images	On	SP3	Off
Load to stamp segments	Off	SP1	Off
Load images to graphic	Off	SP7	Off
segments		SP5	Off
Auto open inline display	Off		
Start measurement without	On	Positioning mode	REF
further preparation		Table position	Н
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA .	S - C - T
·	3	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Coil Select	Delauit
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
			Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1450 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	135 mm
MTC	Off	Physio	
Magn. preparation	None [1st Signal/Mode	None
		rst Signa/iviode	None
Flip angle	55 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Multiple Selles	Oil	Threshold	4.00
Resolution			
Base resolution	78	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
	OII	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
		Meas[13]	Active
Geometry			
Multi-slice mode	Interleaved	Meas[14]	Active
Series	Interleaved	Meas[15]	Active
Special cat	None	Meas[16]	Active
Special sat.	INUTIE	Meas[17]	Active
System		Meas[18]	Active
	-		

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

•	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2374 Hz/Px No Off 0.55 ms
EPI factor Gradient mode RF spoiling	78 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\HumanPhantom\Human_Phantom\Field Map

Rel. SNR: 1.00

SIEMENS: gre_field_mapping

Voxel size: 3.0×3.0×3.0 mm

TA: 1:05

Special sat.

None

TA. 1.05	70xei 5ize. 5.0x5.0x5.0	II Rei. SINN. 1.00 SIEIMEINS.	gre_neid_mapping
Properties		System	
Prio Recon	Off	Body	Off
Before measurement	.	HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
Inline movie	Off	SP2	Off
	On	SP8	Off
Auto store images			
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments	0"	SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	FIX
Wait for user to start	Off	Table position	Н
Start measurements	single	Table position	0 mm
Routine		MSMA	S - C - T
Slice group 1	40	Sagittal	R >> L
Slices	42	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Obias as a da	0
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	3.0 mm	Assume Silicone	Off
TR	492 ms	? Ref. amplitude 1H	0.000 V
TE 1	3.28 ms	Adjustment Tolerance	Auto
TE 2	8.04 ms	Adjust volume	
		Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	HEA;HEP	A >> P	192 mm
Contrast		F >> H	126 mm
MTC	Off		120 11111
Flip angle	90 deg	Sequence	
	•	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Short term	Asymmetric echo	Allowed
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
•	OII		
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
Phase partial Fourier	Off	•	
Interpolation	Off		
Matrix Coil Mode	Auto (CD)		
	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
•	-		
Geometry Multi-slice mode	Interleaved		
Series	Interleaved		

\\USER\CMI\\HumanPhantom\\Human_Phantom\\T1W MEMPRAGE - SAG

		mm Rel. SNR: 1.00 USER	t: tfl_mgh_multiecho
operties		Image Filter	Off
Prio Recon	Off	— Distortion Corr.	Off
	Oli	Unfiltered images	Off
Before measurement		Prescan Normalize	On
After measurement	0.5	Normalize	Off
Load to viewer	On Off	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	On Off	Coornetwy	
Load images to graphic	Off	Geometry	0: 1 1
segments	0"	Multi-slice mode	Single shot
Auto open inline display	Off	Series	Interleaved
Start measurement without	On	System	
further preparation	0"	Body	Off
Wait for user to start	Off	HEP	On
Start measurements	single	HEA	On
outine		SP4	Off
Slab group 1		SP2	Off
Slabs	1	SP8	Off
Dist. factor	50 %	SP6	Off
Position	Isocenter	SP3	Off
Orientation	Sagittal	SP1	Off
Phase enc. dir.	A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0.00 deg 0 %		
	0.0 %	Positioning mode	REF
Slice oversampling		Table position	Н
Slices per slab	176	Table position	0 mm
FoV read	256 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	1.00 mm	Coronal	A >> P
TR	2730 ms	Transversal	F >> H
TE 1	1.64 ms	Save uncombined	Off
TE 2	3.5 ms	Coil Combine Mode	Adaptive Combine
TE 3	5.36 ms	Auto Coil Select	Default
TE 4	7.22 ms		
Averages	1	Shim mode	Standard
Concatenations	1	Adjust with body coil	Off
Filter	Prescan Normalize	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
ontrast		? Ref. amplitude 1H	0.000 V
Magn. preparation	Non-sel. IR	— Adjustment Tolerance	Auto
TI	1000 ms	Adjust volume	
Flip angle	7.0 deg	Position	Isocenter
Fat suppr.	None	Orientation	Sagittal
Water suppr.	None	Rotation	0.00 deg
••••••••••••••••••••••••••••••••••••••		. F >> H	256 mm
Averaging mode	Long term	A >> P	256 mm
Reconstruction	Magnitude	R >> L	176 mm
Measurements	1	I	
Multiple series	Each measurement	Physio	Name
esolution		1st Signal/Mode	None
Base resolution	256	— Dark blood	Off
Phase resolution	256 100 %	Inlina	
		Inline	0"
Slice resolution	100 %	Subtract	Off
Phase partial Fourier	Off Off	Std-Dev-Sag	Off
Slice partial Fourier	Off	Std-Dev-Cor	Off
Interpolation	Off	Std-Dev-Tra	Off
PAT mode	GRAPPA	Std-Dev-Time	Off
Accel. factor PE	2	MIP-Sag	Off
	-	MIP-Cor	Off
	32		011
Ref. lines PE	32 Auto (Triple)	MIP-Tra	Off
	32 Auto (Triple) Integrated		

Sequence

•	
Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	4
Bandwidth 1	651 Hz/Px
Bandwidth 2	651 Hz/Px
Bandwidth 3	651 Hz/Px
Bandwidth 4	651 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Echo spacing	9.6 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Readout polarity	Positive
Readout trajectory	Bipolar
Add, scale factor	4.0
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	On
Save raw k-space data	Off
Averaging	RMS
1 5 9 9	

\\USER\CMI\HumanPhantom\Human_Phantom\DWI B=0 PA - AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
	Oli		Off
segments	0"	SP3	_
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	REF
Start measurements	single	Table position	H
Routine			
		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg		
Phase oversampling	0 %	Shim mode	Standard
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
•		Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3110 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	71010
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC		
No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1st Signal/Wode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude	b-value	0 s/mm²
Measurements	1		On
Delay in TR	0 ms	Diff. weighted images	
Multiple series	Off	Trace weighted images	Off
•		Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
· · · · · · · · · · · · · · ·		Diff. directions	64
PAT mode	None	ļ	
Matrix Coil Mode	Auto (CP)	Sequence	
Diatortion Co	O#	Introduction	Off
Distortion Corr.	Off	Bandwidth	1628 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	96
•		Gradient mode	Fast
Geometry		RF spoiling	Off
Multi-slice mode	Interleaved	-1 - 3	
Series	Interleaved	Excite pulse duration	2560 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\\HumanPhantom\\Human_Phantom\\DKI 64 Directions AP 3 WEIGHTS- AX TA: 9:59 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	Oil	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
	On	SP2	Off
Auto store images	_	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off		
segments	0"	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	0"	SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0%	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Auto Coli Gelect	Delauit
Phase oversampling	0.00 deg 0 %	Shim mode	Standard
Follow Follows	192 mm	Adjust with body coil	Off
	_	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	4500 ms	Adjustment Tolerance	Auto
TE	93.8 ms	Adjust volume	
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg		
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
Grad. Tev. Tat Suppr.			MDDW
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	3 0 a/mm²
Measurements	1	b-value 1	0 s/mm²
Delay in TR	0 ms	b-value 2	1000 s/mm²
Multiple series	Off	b-value 3	2000 s/mm²
1		Diff. weighted images	On
Resolution		Trace weighted images	On Off
Base resolution	96	Average ADC maps	Off
Phase resolution	100 %	Individual ADC maps	Off
Phase partial Fourier	6/8	FA maps	Off
Interpolation	Off	Mosaic	On
PAT mode	None	Tensor	Off
Matrix Coil Mode	Auto (CP)	Noise level	40
······		Diff. directions	64
Distortion Corr.	Off	Sequence	
Prescan Normalize	Off	Introduction	Off
Raw filter	On	Bandwidth	1628 Hz/Px
Elliptical filter	Off		Off
Hamming	Off	Free echo spacing	_
		Echo spacing	0.72 ms
Geometry		EPI factor	96
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	Off
1			

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off Online Online multi-band recon. FFT scale factor 1.00

Off

Physio recording

\\USER\CMI\HumanPhantom\Human_Phantom\DWI B=0 PA- AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	Oli	SP3	Off
Auto open inline display	Off	SP1	Off
		SP7	Off
Start measurement without	On	SP5	
further preparation	0#	5P5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	192 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm		0.000 V
TR	3110 ms	? Ref. amplitude 1H	
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
		Rotation	180.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	•	None
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude	b-value	0 s/mm²
Measurements	1	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96		Off
		FA maps	
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
Matrix Coil Mode	Auto (CP)	Sequence	
······································	, idio (Oi)	Introduction	Off
Distortion Corr.	Off	Bandwidth	1628 Hz/Px
Prescan Normalize	Off		Off
Raw filter	On	Free echo spacing	_
Elliptical filter	Off	Echo spacing	0.72 ms
Hamming	Off	EPI factor	96
· ·	- ··	Gradient mode	Fast
Geometry		RF spoiling	Off
Multi-slice mode	Interleaved		
Series	Interleaved	Excite pulse duration	2560 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\HumanPhantom\Human_Phantom\DWI B=0 AP- AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

PAT: Off

TA: 0:16

TA. 0.10 PAT. O	II VOXEI SIZE. Z.UXZ.UXZ.U IIIII	Rei. Sink. 1.00 USER	
Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	.	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation	3	SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
	5.119.15	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %		
FoV read	192 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3110 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	la a a a a ta a
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
0		Rotation	0.00 deg
Contrast		R >> L	192 mm
MTC	Off	A >> P	192 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	-	
Grad. rev. fat suppr.	Enabled	Diff	
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On
Multiple series	Off	Trace weighted images	Off
ı		Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	96	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
	None	Diff. directions	64
PAT mode	None	Soguence	
Matrix Coil Mode	Auto (CP)	Sequence	Off
Distortion Corr.	Off	Introduction	Off 1638 Hz/Dv
Prescan Normalize	Off	Bandwidth	1628 Hz/Px
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off	Echo spacing	0.72 ms
Hamming		EPI factor	96
	Off		30
	Off	Gradient mode	Fast
Geometry		Gradient mode	Fast
Geometry Multi-slice mode	Interleaved	Gradient mode RF spoiling	Fast Off
Geometry		Gradient mode	Fast

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

TA: 5:00	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER:	despot1_baby
		B1 filter	Off
Properties		Raw filter	On
Prio Recon	Off	Intensity	Weak
Before measurement		Slope	25
After measurement		Elliptical filter	Off
Load to viewer	On		-
Inline movie	Off	Geometry	
Auto store images	On	Multi-slice mode	Sequential
Load to stamp segments	On Off	Series	Ascending
Load images to graphic	Off	System	
segments	0#	Body	On
Auto open inline display	Off	HE2	Off
Start measurement without	On	HE4	Off
further preparation Wait for user to start	Off	HE1	Off
Start measurements		HE3	Off
Start measurements	single	Decisioning and	DEE
outine		Positioning mode	REF
Slab group 1		Table position	H 0 mm
Slabs	1	Table position	0 mm
Dist. factor	20 %	MSMA Sagittal	S - C - T R >> L
Position	Isocenter	Sagittal Coronal	R >> L A >> P
Orientation	Sagittal	Transversal	A >> P F >> H
Phase enc. dir.	A >> P	Save uncombined	F >> H Off
Rotation	0.00 deg	Coil Combine Mode	
Phase oversampling	0 %	Auto Coil Select	Adaptive Combine Default
Slice oversampling	0.0 %	Auto Coll Select	Delaul
Slices per slab	96	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	1.80 mm	Assume Silicone	Off
TR	5.2 ms	? Ref. amplitude 1H	0.000 V
TE	2.4 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
ontrast		R >> L	350 mm
Flip angle	16 deg	A >> P	263 mm
		F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	8		110110
Pause after meas. 1	0.0 s	Inline	
Pause after meas. 2	0.0 s	Subtract	Off
Pause after meas. 3	0.0 s	Std-Dev-Sag	Off
Pause after meas. 4	0.0 s	Std-Dev-Cor	Off
Pause after meas. 5	0.0 s	Std-Dev-Tra	Off
Pause after meas. 6	0.0 s	Std-Dev-Time	Off
Pause after meas. 7	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
esolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution	90 %	Sequence	
Phase partial Fourier	6/8	Introduction	Off
Slice partial Fourier	7/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
		Contrasts	1
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px
Image Filter	Off	Danuwidin	330 HZ/FX
Image Filter Distortion Corr.	Off	RF pulse type	Low SAR
	_	Gradient mode	Fast
Prescan Normalize	Off	Gradient meas	i asi

IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	37.8 deg
Gradient Spoiler Factor	0.3
Baby Mode	Off

\\USER\CMI\HumanPhantom\Human_Phantom\IR SPGR -SAG

TA: 0:53 Voxel size: 1.7×1.7×3.6 mm Rel. SNR: 1.00 USER: despot1_baby				
Properties		Series	Ascending	
Prio Recon	Off	System		
Before measurement		Body	On	
After measurement		HE2	Off	
Load to viewer	On	HE4	Off	
Inline movie	Off	HE1	Off	
Auto store images	On	HE3	Off	
Load to stamp segments	On			
Load images to graphic	Off	Positioning mode	FIX	
segments		Table position	H	
Auto open inline display	Off	Table position	0 mm	
Start measurement without	Off	MSMA	S - C - T	
further preparation	.	Sagittal	R >> L	
Wait for user to start	Off	Coronal	A >> P	
Start measurements	single	Transversal	F >> H	
Start measurements	Sirigle	Save uncombined	Off	
Routine		Coil Combine Mode	Adaptive Combine	
Slab group 1		Auto Coil Select	Default	
Slabs	1	01.	·····	
Dist. factor	20 %	Shim mode	Tune up	
Position	Isocenter	Adjust with body coil	Off	
Orientation	Sagittal	Confirm freq. adjustment	Off	
Phase enc. dir.	A >> P	Assume Silicone	Off	
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V	
Phase oversampling	0.00 deg 0 %	Adjustment Tolerance	Auto	
	0.0 %	Adjust volume		
Slice oversampling		Position	Isocenter	
Slices per slab	48	Orientation	Transversal	
FoV read	220 mm	Rotation	0.00 deg	
FoV phase	100.0 %	R >> L	350 mm	
Slice thickness	3.60 mm	A >> P	263 mm	
TR	5.3 ms	F >> H	350 mm	
TE	2.4 ms	1 >>11	330 11111	
Averages	1	Physio		
Concatenations	1	1st Signal/Mode	None	
Filter	Raw filter	•		
Coil elements	BC	Inline	~~	
No. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Subtract	Off	
Contrast		Std-Dev-Sag	Off	
Flip angle	5 deg	Std-Dev-Cor	Off	
Averaging mode	Short term	Std-Dev-Tra	Off	
Reconstruction	Magnitude	Std-Dev-Time	Off	
Measurements	1	MIP-Sag	Off	
Multiple series	Off	MIP-Cor	Off	
Multiple selles	Oli	MIP-Tra	Off	
Resolution		MIP-Time	Off	
Base resolution	128	Save original images	On	
Phase resolution	100 %			
Slice resolution	100 %	Sequence		
Phase partial Fourier	Off	Introduction	Off	
Slice partial Fourier	6/8	Dimension	3D	
Interpolation	Off	Elliptical scanning	On	
		Contrasts	1	
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px	
Image Filter	Off	RF pulse type	Low SAR	
Distortion Corr.	Off	Gradient mode	Fast	
Prescan Normalize	Off	RF spoiling	On	
Normalize	Off			
B1 filter	Off	IR Mode	On	
Raw filter	On	Inversion time	400 ms	
	Weak	RF pulse duration	0.8 ms	
Intensity		RF pulse TBW	3.0	
Slope	25	RF Spoil Increment	37.8 deg	
Elliptical filter	Off	Gradient Spoiler Factor	0.3	
Geometry		Baby Mode	Off	
· · · · · · · · · · · · · · · · · ·			-	

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		Slice partial Fourier	7/8
operties Prio Recon	Off	Interpolation	Off
Before measurement	Oil	Matrix Coil Mode	Auto (CP)
After measurement			
Load to viewer	On	Image Filter	Off Off
Inline movie	Off	Distortion Corr.	Off Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	On	Normalize	Off
Load images to graphic	Off	B1 filter	Off
segments		Raw filter	On
Auto open inline display	Off	Intensity	Medium
Start measurement without	On	Slope	48
further preparation		Elliptical filter	Off
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
	J	Series	Ascending
Outine			,
Slab group 1 Slabs	1	System	<u></u>
Dist. factor	1 20 %	Body	On O#
Position		HE2	Off Off
	Isocenter Societal	HE4	Off
Orientation	Sagittal A >> P	HE1	Off Off
Phase enc. dir.		HE3	Off
Rotation Phase oversampling	0.00 deg 0 %	Positioning mode	FIX
Phase oversampling		Table position	H
Slice oversampling	0.0 % 96	Table position	0 mm
Slices per slab		MSMA	S - C - T
FoV read	220 mm	Sagittal	R >> L
FoV phase Slice thickness	100.0 %	Coronal	A >> P
	1.80 mm	Transversal	F >> H
TR	5.40 ms	Save uncombined	Off
TE	2.700 ms	Coil Combine Mode	Adaptive Combine
Averages	1	Auto Coil Select	Default
Concatenations	l Dow filtor		
Filter	Raw filter	Shim mode	Tune up
Coil elements	BC	Adjust with body coil	Off
ontrast		Confirm freq. adjustment	Off
Flip angle	60 deg	Assume Silicone	Off
			0.000 V
Averaging mode	Short term	Adjustment Tolerance	Auto
Reconstruction	Magnitude	Adjust volume	
Measurements	16	Position	Isocenter
Pause after meas. 1	0.0 s	Orientation	Transversal
Pause after meas. 2	0.0 s	Rotation	0.00 deg
Pause after meas. 3	0.0 s	R >> L	350 mm
Pause after meas. 4	0.0 s	A >> P	263 mm
Pause after meas. 5	0.0 s	F >> H	350 mm
Pause after meas. 6	0.0 s	Physio	
Pause after meas. 7	0.0 s	1st Signal/Mode	None
Pause after meas. 8	0.0 s	1	NONG
Pause after meas. 9	0.0 s	Inline	
Pause after meas. 10	0.0 s	Subtract	Off
Pause after meas. 11	0.0 s	Std-Dev-Sag	Off
Pause after meas. 12	0.0 s	Std-Dev-Cor	Off
Pause after meas. 13	0.0 s	Std-Dev-Tra	Off
Pause after meas. 14	0.0 s	Std-Dev-Time	Off
Pause after meas. 15	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
esolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution	95 % 90 %	,	
	. 0. 1 . 411	Sequence	

Dimension Elliptical scanning Contrasts Bandwidth	3D Off 1 350 Hz/Px
RF pulse type	Low SAR
Gradient mode	Fast
RF spoiling	Off
IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off

 $\verb|\USER\CMI\HumanPhantom\Human_Phantom\MT OFF -SAG| \\$

TA: 6:41	PAT: 2 Voxel size: 1.0×1	1.0×1.0 mm Rel. SNR: 1.00	SIEMENS: gre
Droportion		Normalize	Off
Properties	0"	B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement After measurement		Elliptical filter	Off
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
	On	Series	Interleaved
Auto store images Load to stamp segments	On	Series	······
Load images to graphic	Off	Saturation mode	Standard
segments	Oli	Special sat.	None
Auto open inline display	Off		
Start measurement without	On	Tim CT mode	Off
further preparation	On	Custom	
Wait for user to start	Off	System	0"
Start measurements	single	Body	Off
Start measurements	Sirigie	HEP	On
Routine		HEA	On Off
Slab group 1		—— SP4	Off
Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation	Sagittal	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	176	Table position	Н
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP		-
Contrast		Shim mode	Tune up
MTC	Off	Adjust with body coil	Off
Magn. preparation	None	Confirm freq. adjustment	Off
Flip angle	15 deg	Assume Silicone	Off
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Water suppr.	None	Adjustment Tolerance	Auto
• • • • • • • • • • • • • • • • • • •	INOTIG	Adjust volume	lagantar
Averaging mode	Short term	Position	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
Resolution		A >> P	263 mm
Base resolution	256	F >> H	350 mm
Phase resolution	256 100 %	Physio	
Slice resolution	100 %	1st Signal/Mode	None
	6/8	Segments	1
Phase partial Fourier Slice partial Fourier	6/8		
Interpolation	Off	Tagging	None
	OII	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	· ·	
Ref. lines PE	32	Inline	
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
Imaga Filter		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off
		1	

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

 $\verb|\USER\CMI\HumanPhantom\Human_Phantom\MT ON -SAG| \\$

)roportino		Normalize	Off
roperties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement		Elliptical filter	Off
After measurement		1 .	
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On	Saturation mode	Standard
Load images to graphic	Off	Special sat.	None
segments		'	
Auto open inline display	Off	Tim CT mode	Off
Start measurement without	On	1 mil C1 mode	Oli
further preparation		System	
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
Pouting	-	HEA	On
Routine		— SP4	Off
Slab group 1		SP2	Off
Slabs	1	SP8	Off
Dist. factor	20 %	SP6	Off
Position	Isocenter	SP3	Off
Orientation	Sagittal		
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	176	Table position	H
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1		
Concatenations	1	Save uncombined	Off
Filter	None	Coil Combine Mode	Adaptive Combine
Coil elements	HEA;HEP	Auto Coil Select	Default
Con elements	TILA,TILF	Shim mode	Tune up
Contrast		Adjust with body coil	Off
MTC	On	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjustment Tolerance Adjust volume	Auto
		Position	Isocontor
Averaging mode	Short term		Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
Pasalution		A >> P	263 mm
Resolution	050	F >> H	350 mm
Base resolution	256	Physio	
Phase resolution	100 %	1st Signal/Mode	None
Slice resolution	100 %	Segments	None 1
Phase partial Fourier	6/8	Segments	l
Slice partial Fourier	6/8	Tagging	None
Interpolation	Off	Dark blood	Off
	CDADDA		
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE	2	Inline	
Ref. lines PE	32		Off
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
Imaga Filtor		Std-Dev-Sag	Off
Image Filter	Off Off	Std-Dev-Cor	Off
Distortion Corr. Prescan Normalize		Std-Dev-Tra	Off
⊨raccan N∩rmali7Δ	Off	Std-Dev-Time	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\\HumanPhantom\\Human_Phantom\\T2 FLAIR

Rel. SNR: 1.00

SIEMENS: tse

Voxel size: 0.9×0.9×5.0 mm

TA: 2:44

PAT: 2

Properties		Distortion Corr.	Off
Prio Recon	Off	Prescan Normalize	Off
Before measurement	Oli	Normalize	On
After measurement		Intensity	Medium
Load to viewer	On	Cut off	20
Inline movie	Off	Width	4
		Unfiltered images	Off
Auto store images	On Off	B1 filter	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	On
segments		Mode	Inplane
Auto open inline display	Off		•
Start measurement without	On	Geometry	
further preparation		Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Interleaved
Start measurements	single	Special sat.	None
Routine		opedai sat.	·····
Slice group 1		Tim CT mode	Off
Slices	22	ı	J 11
Dist. factor	30 %	System	
Position	Isocenter	Body	Off
Orientation	Transversal	HEP	On
	R >> L	HEA	On
Phase enc. dir.			
Rotation	90.00 deg	Positioning mode	FIX
Phase oversampling	0 %	Table position	Н
FoV read	230 mm	Table position	0 mm
FoV phase	87.5 %	MSMA	S - C - T
Slice thickness	5.0 mm	Sagittal	R >> L
TR	9000 ms	Coronal	A >> P
TE	89.0 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	2	Coil Combine Mode	Adaptive Combine
Filter	Normalize, Elliptical filter	Auto Coil Select	Default
Coil elements	HEA;HEP		
Contrast		Shim mode	Standard
TD	0.0 ms	Adjust with body coil	Off
MTC	Off	Confirm freq. adjustment	Off
	Slice-sel. IR	Assume Silicone	Off
Magn. preparation		? Ref. amplitude 1H	0.000 V
TI	2500 ms	Adjustment Tolerance	Auto
Freeze suppressed tissue	On	Adjust volume	
Flip angle	150 deg	Position	Isocenter
Fat suppr.	Fat sat.	Orientation	Transversal
Fat sat. mode	Strong	Rotation	90.00 deg
Water suppr.	None	A >> P	230 mm
Restore magn.	Off	R >> L	202 mm
Averaging mode	Short term	F >> H	142 mm
Reconstruction	Magnitude	Di .	
Measurements	1	Physio	
Multiple series	Each measurement	1st Signal/Mode	None
	Edon medadrement	Dark blood	Off
Resolution	256	Resp. control	Off
Base resolution	256	· ·	J
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	On	Std-Dev-Cor	Off
PAT mode	GRAPPA	Std-Dev-Tra	Off
Accel. factor PE	2	Std-Dev-Time	Off
Ref. lines PE		MIP-Sag	Off
	31	MIP-Cor	Off
Matrix Coil Mode	Auto (Triple)	MIP-Tra	Off
Reference scan mode	Integrated	MIP-Time	Off
Image Filter	Off		On
1	~··	Save original images	OII

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	On
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	9.92 ms
Define	Turbo factor
Turbo factor	16
Echo trains per slice	8
RF pulse type	Normal
Gradient mode	Normal
•	

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	AT: Off Voxel size: 2.0×1.6×		SIEMENS: gre
.		Phase resolution	80 %
Properties	0"	Phase partial Fourier	Off
Prio Recon Before measurement	Off	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	Auto (CP)
Inline movie	Off		
Auto store images	On	Image Filter	Off
Load to stamp segments	On	Distortion Corr.	On
Load images to graphic	Off	Mode	2D
segments		Unfiltered images	Off
Auto open inline display	Off	Prescan Normalize Normalize	Off Off
Start measurement without	Off	B1 filter	Off
further preparation		Raw filter	Off
Wait for user to start	Off	Elliptical filter	On
Start measurements	single	Mode	Inplane
Routine			mplane
Slice group 1		- Geometry	Cognostial
Slices	3	Multi-slice mode Series	Sequential Interleaved
Dist. factor	50 %	361165	mileneaveu
Position	Isocenter	Saturation mode	Standard
Orientation	Transversal	Special sat.	None
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	0	System	
Slices Dist. factor	3 50 %	Body	Off
Position	lsocenter	BO1	On
Orientation	Coronal	BO2	On
Phase enc. dir.	R >> L	SP4	On
Rotation	0.00 deg	SP2	On
Slice group 3	0.00 0.09	SP8	Off
Slices	3	SP6	Off
Dist. factor	50 %	SP3	On
Position	L21.0 P0.0 H0.0	SP1	Off
Orientation	Sagittal	SP7	Off
Phase enc. dir.	A >> P	SP5	Off
Rotation	0.00 deg	Positioning mode	ISO
Phase oversampling	13 %	Table position	Н
FoV read	400 mm	Table position	0 mm
FoV phase Slice thickness	100.0 % 7.0 mm	MSMA	S - C - T
TR	7.0 ms	Sagittal	R >> L
TE	2.60 ms	Coronal	A >> P
Averages	2	Transversal	H >> F
Concatenations	9	Save uncombined Coil Combine Mode	Off
Filter	Distortion Corr.(2D), Elliptical	Auto Coil Select	Adaptive Combine Default
	filter		Delauit
Coil elements	BO1,2;SP2-4	Shim mode	Tune up
Contrast		Adjust with body coil	Off
TD	0 ms	Confirm freq. adjustment	Off
MTC	Off	Assume Silicone	Off
Magn. preparation	None	? Ref. amplitude 1H	0.000 V Auto
Flip angle	20 deg	Adjustment Tolerance Adjust volume	Auto
Fat suppr.	None	Position	Isocenter
Water suppr.	None	Orientation	Transversal
Averaging mode	Short term	Rotation	0.00 deg
Averaging mode Reconstruction	Magnitude	R >> L	350 mm
Measurements	1	A >> P	263 mm
Multiple series	Off	F >> H	350 mm
	- · ·	Physio	
Resolution	256	1st Signal/Mode	None
Base resolution	256	Segments	1
		333/±	-

1		
	Tagging	None
	Dark blood	Off
	Resp. control	Off
In	line	
	Subtract	Off
	Liver registration	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
	Wash - In	Off
	Wash - Out	Off
	TTP	Off
	PEI	Off
	MIP - time	Off
1_		
Se	equence	
	Introduction	On
	Dimension	2D
	Phase stabilisation	Off
	Asymmetric echo	Allowed
	Contrasts	1
	Bandwidth	290 Hz/Px
	Flow comp.	No
	RF pulse type	Fast
	Gradient mode	Normal
	Excitation	Slice-sel.
	RF spoiling	On

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\Abdomen Dixon Breathhold

		Distortion Corr.	On
roperties		Mode	2D
Prio Recon	Off	Unfiltered images	Off
Before measurement		Unfiltered images	Off
After measurement		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	Elliptical filter	Off
Load images to graphic	Off	POCS	Off
segments		ļ	
Auto open inline display	On	Geometry	
Start measurement without	On	Multi-slice mode	Sequential
further preparation		Series	Ascending
Wait for user to start	Off	Chariel ant	Dorollol E/U
Start measurements	single	Special sat.	Parallel F/H
outing.		Gap	10.0 mm
outine		Thickness	60 mm
Slab group 1	4	0 1	
Slabs	1	System	
Dist. factor	20 %	Body	Off
Position	Isocenter	BO1	On
Orientation	Transversal	BO2	On
Phase enc. dir.	A >> P	SP4	Off
Rotation	0.00 deg	SP2	On
Phase oversampling	0 %	SP8	Off
Slice oversampling	0.0 %	SP6	Off
Slices per slab	40	SP3	On
FoV read	400 mm	SP1	Off
FoV phase	78.1 %	SP7	Off
Slice thickness	5.00 mm	SP5	Off
TR	6.82 ms		
TE 1	2.38 ms	Positioning mode	ISO
TE 2	4.76 ms	Table position	Н
Averages	1	Table position	0 mm
Concatenations	1	MSMA	S - C - T
Filter	Distortion Corr.(2D), Prescan	Sagittal	R >> L
i iitei	Normalize	Coronal	A >> P
Coil elements	BO1,2;SP2,3	Transversal	H >> F
Con elements	BO1,2,3F2,3	Save uncombined	Off
Contrast		Coil Combine Mode	Adaptive Combine
Flip angle	10.0 deg	Auto Coil Select	Default
Fat suppr.	None		
Water suppr.	None	Shim mode	Standard
Dixon	Water + fat images	Adjust with body coil	Off
Save original images	On	Confirm freq. adjustment	Off
·····	U 11	Assume Silicone	Off
Averaging mode	Short term	? Ref. amplitude 1H	0.000 V
Reconstruction	Magnitude	Adjustment Tolerance	Auto
Measurements	1	Adjust volume	
Multiple series	Off	Position	Isocenter
•		Orientation	Transversal
esolution	0.50	Rotation	0.00 deg
Base resolution	256	R >> L	400 mm
Phase resolution	70 %	A >> P	313 mm
Slice resolution	60 %	F >> H	200 mm
Phase partial Fourier	Off	ļ	200 11111
Slice partial Fourier	6/8	Physio	
Interpolation	Off	1st Signal/Mode	None
	ODADDA		
PAT mode	GRAPPA	Resp. control	Breath-hold
Accel. factor PE	2	Inline	
Ref. lines PE	24	3D centric reordering	Off
Matrix Coil Mode	Auto (Triple)	Time to center	5.2 s
Reference scan mode	Integrated	Time to center	J.Z S
Image Filter	Off	Subtract	Off
imaye i iilel	OII	Liver registration	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
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Seguence	

Sequence

•	
Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Strong
Contrasts	2
Bandwidth 1	480 Hz/Px
Bandwidth 2	480 Hz/Px
Readout mode	Monopolar
Optimization	In phase
 RF pulse type Gradient mode	Fast Fast
Excitation	Slab-sel.
	-
RF spoiling	On

\\USER\CMI\\HumanPhantom\\Human_Phantom_Modi\\Brain Localizer

	AT: Off Voxel size: 1.4×1.0×	8.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Phase resolution	75 %
Properties Prio Recon	Off	- Phase partial Fourier	Off
	OII	Interpolation	On
Before measurement		PAT mode	None
After measurement	On		None
Load to viewer	On Off	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Image Filter	Off
Auto store images	On Off	Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments	0"	Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	On	Raw filter	Off
further preparation		Elliptical filter	On
Wait for user to start	On	Mode	Inplane
Start measurements	single		1
Routine		Geometry	
Slice group 1		- Multi-slice mode	Sequential
Slices	3	Series	Interleaved
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	Tim C1 mode	Oli
Slice group 2	0.00 deg	System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
		SP8	Off
Rotation	0.00 deg	SP6	Off
Slice group 3	2	SP3	Off
Slices	3	SP1	Off
Dist. factor	300 %	SP7	Off
Position	L0.0 A25.1 F0.7	SP5	Off
Orientation	Coronal	01 0	••••••
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		<u>-</u>
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	_ Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	ı	
1		Physio	
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1

Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	Off Off Off Off Off Off Off Off Off
MIP-Tra MIP-Time Save original images	Off Off On
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts	On 2D Off Allowed 1
Bandwidth Flow comp.	290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\Motion Training

TA: 1:35 PAT: Off	Voxel size: 3.0×3.0×10.0 mm		R: cmrr_mbep2d_bold
Properties		Body	On
Prio Recon	Off	HEP	Off
Before measurement	On	HEA	Off
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	0.11	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	011	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
	Sirigio	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	9	Coil Combine Mode	Sum of Squares
Dist. factor	100 %	Auto Coil Select	Default
Position	Isocenter		
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
FoV read	192 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	10.00 mm	Adjust volume	
TR	130 ms	Position	Isocenter
TE	7.94 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	192 mm
Coil elements	BC	A >> P	192 mm
Contrast		F >> H	170 mm
MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
Flip angle	55 deg	1	110110
Fat suppr.	Fat sat.	BOLD	
		GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	700	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Resolution		Threshold	4.00
Base resolution	64	Paradigm size	20
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	5/8	Meas[2]	Baseline
Interpolation	Off	Meas[3]	Baseline
		Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
Distortion Corr	Off	Meas[7]	Baseline
Distortion Corr. Prescan Normalize	Off	Meas[8]	Baseline
Raw filter	On	Meas[9]	Baseline
DAW IIIEI	Off	Meas[10]	Baseline
	3.711	Meas[11]	Active
Elliptical filter			
	Off	Meas[12]	Active
Elliptical filter		Meas[12] Meas[13]	Active
Elliptical filter Hamming		Meas[12] Meas[13] Meas[14]	Active Active
Elliptical filter Hamming Geometry	Off	Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active
Elliptical filter Hamming Geometry Multi-slice mode Series	Off Interleaved Interleaved	Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active
Elliptical filter Hamming Geometry Multi-slice mode	Off Interleaved	Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	On
Interpolation	3D-K-space
Spatial filter	Off

Sequence

1	
Introduction	Off
Bandwidth	2442 Hz/Px
Flow comp.	No O''
Free echo spacing	Off
Echo spacing	0.51 ms
EPI factor	64
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	2560 us
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard
Starting ignore meas	0
Paradigm size	2
Multiplier	1
Step [1]	1
Step [2]	0

\\USER\CMI\\HumanPhantom\\Human_Phantom_Modi\\Brain Localizer

	AT: Off Voxel size: 1.4×1.0×	8.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Phase resolution	75 %
Properties Prio Recon	Off	- Phase partial Fourier	Off
	OII	Interpolation	On
Before measurement		PAT mode	None
After measurement	On		None
Load to viewer	On Off	Matrix Coil Mode	Auto (CP)
Inline movie	Off	Image Filter	Off
Auto store images	On Off	Distortion Corr.	Off
Load to stamp segments	Off	Unfiltered images	Off
Load images to graphic	Off	Prescan Normalize	On
segments	0"	Normalize	Off
Auto open inline display	Off	B1 filter	Off
Start measurement without	On	Raw filter	Off
further preparation		Elliptical filter	On
Wait for user to start	On	Mode	Inplane
Start measurements	single		1
Routine		Geometry	
Slice group 1		- Multi-slice mode	Sequential
Slices	3	Series	Interleaved
Dist. factor	300 %	Saturation mode	Standard
Position	L0.0 A25.1 F0.7	Special sat.	None
Orientation	Sagittal		
Phase enc. dir.	A >> P	Tim CT mode	Off
Rotation	0.00 deg	Tim C1 mode	Oli
Slice group 2	o.oo deg	System	
Slices	3	Body	Off
Dist. factor	300 %	HEP	On
Position	L0.0 A25.1 F0.7	HEA	On
Orientation	Transversal	SP4	Off
Phase enc. dir.	A >> P	SP2	Off
		SP8	Off
Rotation	0.00 deg	SP6	Off
Slice group 3	2	SP3	Off
Slices	3	SP1	Off
Dist. factor	300 %	SP7	Off
Position	L0.0 A25.1 F0.7	SP5	Off
Orientation	Coronal	01 0	••••••
Phase enc. dir.	R >> L	Positioning mode	REF
Rotation	0.00 deg	Table position	Н
Phase oversampling	0 %	Table position	0 mm
FoV read	260 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	8.0 mm	Coronal	A >> P
TR	7.0 ms	Transversal	F >> H
TE	2.95 ms	Save uncombined	Off
Averages	2	Coil Combine Mode	Adaptive Combine
Concatenations	9	Auto Coil Select	Default
Filter	Prescan Normalize, Elliptical		<u>-</u>
	filter	Shim mode	Tune up
Coil elements	HEA;HEP	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
TD	0 ms	_ Assume Silicone	Off
MTC	Off	? Ref. amplitude 1H	0.000 V
		Adjustment Tolerance	Auto
Magn. preparation	None	Adjust volume	
Flip angle	20 deg	Position	Isocenter
Fat suppr.	None	Orientation	Transversal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Short term	R >> L	350 mm
Reconstruction	Magnitude	A >> P	263 mm
Measurements	1	F >> H	350 mm
Multiple series	Off	ı	
1		Physio	N.
Resolution		1st Signal/Mode	None
Base resolution	256	Segments	1

Tagging Dark blood	None Off
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	On Off Off Off Off Off Off
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 2D Off Allowed 1 290 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Fast Normal Slice-sel. On

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\Resting State 2.5mm

TA: 10:35 PAT: C	off Voxel size: 2.5×2.5×2.5 m	•	R: cmrr_mbep2d_bold
Properties		Body	Off
Prio Recon	Off	HEP	On
Before measurement	Oil	HEA	On
After measurement		SP4	Off
Load to viewer	On	SP2	Off
Inline movie	Off	SP8	Off
Auto store images	On	SP6	Off
Load to stamp segments	Off	SP3	Off
Load images to graphic	Off	SP1	Off
segments	Oli	SP7	Off
Auto open inline display	Off	SP5	Off
Start measurement without	On	Positioning mode	REF
further preparation	Oli	Table position	H
Wait for user to start	Off	Table position	0 mm
Start measurements	single	MSMA	S - C - T
Start measurements	Single	Sagittal	R >> L
Routine		Coronal	A >> P
Slice group 1		Transversal	F >> H
Slices	54	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	Auto Coil Select	Default
Position	Isocenter	Auto Coli Select	
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
FoV read	220 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.50 mm	Adjust volume	
TR	1490 ms	Position	Isocenter
TE	40.0 ms	Orientation	Transversal
Multi-band accel. factor	3	Rotation	0.00 deg
Filter	None	R >> L	220 mm
Coil elements	HEA;HEP	A >> P	220 mm
ı	,	F >> H	135 mm
Contrast MTC	Off	Physio	
Magn. preparation	None	1st Signal/Mode	None
		1st Signal/Mode	None
Flip angle	55 deg Fat sat.	BOLD	
Fat suppr.	r at sat.	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	420	Ignore after transition	0
Delay in TR	0 ms	Model transition states	On
Multiple series	Off	Temp. highpass filter	On
Desclution		Threshold	4.00
Resolution	00	Paradigm size	20
Base resolution	88	Meas[1]	Baseline
Phase resolution	100 %	Meas[2]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	None	Meas[5]	Baseline
Matrix Coil Mode	Auto (CP)	Meas[6]	Baseline
		Meas[7]	Baseline
Distortion Corr.	Off	Meas[8]	Baseline
Prescan Normalize	Off	Meas[9]	Baseline
Raw filter	On	Meas[10]	Baseline
Elliptical filter	Off	Meas[11]	Active
Hamming	Off	Meas[12]	Active
Geometry		Meas[13]	Active
Multi-slice mode	Interleaved	Meas[14]	Active
		Meas[14]	Active
Series	Interleaved	Meas[16]	Active
Special sat.	None	Meas[17]	Active
		Meas[17] Meas[18]	Active
System		3/3/±	

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

Sequence

Ooquonoo	
Introduction Bandwidth Flow comp. Free echo spacing Echo spacing	Off 2368 Hz/Px No Off 0.54 ms
EPI factor Gradient mode RF spoiling	88 Fast Off
Excite pulse duration Single-band images MB LeakBlock kernel MB RF phase scramble SENSE1 coil combine Invert RO/PE polarity Online multi-band recon. FFT scale factor Physio recording Triggering scheme Starting ignore meas Paradigm size Multiplier Step [1] Step [2]	2560 us Off Off Off Off Off Online 1.00 Off Standard 0 2 1

\\USER\CMI\\HumanPhantom\\Human_Phantom_Modi\\Field Map

Rel. SNR: 1.00

Voxel size: 3.4×3.4×3.4 mm

TA: 1:05

Special sat.

None

SIEMENS: gre_field_mapping

TA. 1.05	/0xei 5i2e. 5.4x5.4x5.4 iiiiii	Rei. SINK. 1.00 SIEIVIENS.	gre_neid_mapping
Properties		System	
Prio Recon	Off	Body	Off
Before measurement	Oli	HEP	On
After measurement		HEA	On
Load to viewer	On	SP4	Off
		SP2	Off
Inline movie	Off		
Auto store images	On O"	SP8	Off
Load to stamp segments	Off	SP6	Off
Load images to graphic	Off	SP3	Off
segments		SP1	Off
Auto open inline display	Off	SP7	Off
Start measurement without	On	SP5	Off
further preparation		Positioning mode	FIX
Wait for user to start	Off	Table position	H
Start measurements	single		0 mm
Pautina		Table position	_
Routine		MSMA	S - C - T
Slice group 1		Sagittal	R >> L
Slices	38	Coronal	A >> P
Dist. factor	0 %	Transversal	F >> H
Position	Isocenter	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg		
Phase oversampling	0 %	Shim mode	Standard
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	3.4 mm	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
TR	492 ms	Adjustment Tolerance	Auto
TE 1	3.28 ms	Adjust volume	
TE 2	8.04 ms	Position	Isocenter
Averages	1	Orientation	Transversal
Concatenations	1	Rotation	
Filter	None		0.00 deg
Coil elements	HEA;HEP	R >> L	220 mm
		A >> P	220 mm
Contrast		F >> H	130 mm
MTC	Off	Sequence	
Flip angle	90 deg	Introduction	On
Fat suppr.	None	Dimension	2D
Averaging mode	Chart tarm		
Averaging mode	Short term	Asymmetric echo	Allowed
Reconstruction	Magn./Phase	Contrasts	2
Measurements	1	Bandwidth	260 Hz/Px
Multiple series	Off	Flow comp.	Yes
Resolution		RF pulse type	Normal
Base resolution	64	Gradient mode	Fast
Phase resolution	100 %	RF spoiling	On
Phase partial Fourier	Off		
Interpolation	Off		
Matrix Coil Mode	Auto (CP)		
		-	
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	Off		
Elliptical filter	Off		
Geometry			
Multi-slice mode	Interleaved	<u> </u>	
Series	Interleaved		
		. <u>.</u>	
•			

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\T1W MEMPRAGE - SAG

		Image Filter	Off
Properties		—— Distortion Corr.	Off
Prio Recon	Off	Unfiltered images	Off
Before measurement		Prescan Normalize	On
After measurement		Normalize	Off
Load to viewer	On	B1 filter	Off
Inline movie	Off	Raw filter	Off
Auto store images	On	Elliptical filter	Off
Load to stamp segments	On	Emplical intel	Oli
Load images to graphic	On	Geometry	
segments		Multi-slice mode	Single shot
Auto open inline display	Off	Series	Interleaved
Start measurement without	On	System	
further preparation		System	0"
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
		HEA	On O"
outine		SP4	Off
Slab group 1		SP2	Off
Slabs	1	SP8	Off
Dist. factor	50 %	SP6	Off
Position	Isocenter	SP3	Off
Orientation	Sagittal	SP1	Off
Phase enc. dir.	A >> P	SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0 %	Positioning mode	REF
Slice oversampling	0.0 %	Table position	H
Slices per slab	176		П 0 mm
FoV read	256 mm	Table position	
FoV phase	100.0 %	MSMA	S-C-T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	2730 ms	Coronal	A >> P
TE 1	1.64 ms	Transversal	F >> H
TE 2	3.5 ms	Save uncombined	Off
TE 3	5.36 ms	Coil Combine Mode	Adaptive Combine
TE 4	7.22 ms	Auto Coil Select	Default
Averages	1	Shim mode	Standard
Concatenations	1	Adjust with body coil	Off
Filter	Prescan Normalize	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
	11273,1121	? Ref. amplitude 1H	0.000 V
ontrast		Adjustment Tolerance	Auto
Magn. preparation	Non-sel. IR	Adjust volume	Auto
TI	1000 ms	Position	Isocenter
Flip angle	7.0 deg	Orientation	
Fat suppr.	None		Sagittal
Water suppr.	None	Rotation	0.00 deg
Averaging mode	Long torm	F >> H	256 mm
Averaging mode	Long term	A >> P	256 mm
Reconstruction	Magnitude	R >> L	176 mm
Measurements	To also associated	Physio	
Multiple series	Each measurement	1st Signal/Mode	None
esolution			
Base resolution	256	—— Dark blood	Off
Phase resolution	100 %	Inline	
Slice resolution	100 %	Subtract	Off
Phase partial Fourier	Off	Std-Dev-Sag	Off
Slice partial Fourier	Off	· ·	Off
Interpolation	Off	Std-Dev-Cor	_
	OII	Std-Dev-Tra	Off
PAT mode	GRAPPA	Std-Dev-Time	Off
Accel. factor PE	2	MIP-Sag	Off
	32	MIP-Cor	Off
Ref. lines PE			~ · ·
Ref. lines PE Matrix Coil Mode		MIP-Tra	Off
Matrix Coil Mode Reference scan mode	Auto (Triple) Integrated	MIP-Tra MIP-Time Save original images	Off Off On

Sequence

	Coquonico	
	Introduction	On
	Dimension	3D
	Elliptical scanning	Off
	Asymmetric echo	Off
	Contrasts	4
	Bandwidth 1	651 Hz/Px
	Bandwidth 2	651 Hz/Px
	Bandwidth 3	651 Hz/Px
	Bandwidth 4	651 Hz/Px
	Flow comp. 1	No
	Flow comp. 2	No
	Flow comp. 3	No
	Flow comp. 4	No
	Echo spacing	9.6 ms
	RF pulse type	Fast
	Gradient mode	Fast
	Excitation	Non-sel.
	RF spoiling	On
		D '''
	Readout polarity	Positive
	Readout trajectory	Bipolar
	Add. scale factor	4.0
	Gradient spoiling	Siemens
	Gradient moment factor	1
	Siemens reconstruction	On Off
	Save raw k-space data	Off
I	Averaging	RMS

 $\verb|\USER\CMI\HumanPhantom\Human_Phantom_Modi\DWI B=0 PA - AX| \\$

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	-	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	REF
ļ.	5.1.g.5	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg		
Phase oversampling	0 %	Shim mode	Standard
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	3240 ms	? Ref. amplitude 1H	0.000 V
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Con elements	ВС	Rotation	180.00 deg
Contrast		R >> L	220 mm
MTC	Off	A >> P	220 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Dhysis	
Refocus flip angle	180 deg	Physio	Maria
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	1
Reconstruction	Magnitude	b-value	0 s/mm²
Measurements	1	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	110	FA maps	Off
Phase resolution	100 %	Mosaic	Off
	6/8	Tensor	Off
Phase partial Fourier			
Interpolation	Off	Noise level	40 64
PAT mode	None	Diff. directions	υ 4
Matrix Coil Mode	Auto (CP)	Sequence	
		Introduction	Off
Distortion Corr.	Off	Bandwidth	1624 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On	Echo spacing	0.72 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	110
Geometry		Gradient mode	Fast
	Interlegued	— RF spoiling	Off
Multi-slice mode	Interleaved		2500
Series	Interleaved	Excite pulse duration	2560 us
1		Refocus pulse duration	5120 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\\HumanPhantom\\Human_Phantom_Modi\\DKI 64 Directions AP 3 WEIGHTS- AX TA: 9:59 PAT: Off Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement	OII	Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	0.4	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	H
Routine		Table position	0 mm
		•	
Slice group 1	70	MSMA Sogittal	S-C-T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm		0.000 V
TR	4500 ms	? Ref. amplitude 1H	
TE	98.0 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
		Rotation	0.00 deg
Contrast		R >> L	220 mm
MTC	Off	A >> P	220 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1st Signal/Mode	None
Grad. rev. fat suppr.	Enabled	Diff	
A		Diffusion mode	MDDW
Averaging mode	Long term	Diff. weightings	3
Reconstruction	Magnitude	b-value 1	0 s/mm²
Measurements	1	b-value 2	1000 s/mm²
Delay in TR	0 ms	b-value 3	2000 s/mm²
Multiple series	Off	Diff. weighted images	On
Resolution		Trace weighted images	On
Base resolution	110	Average ADC maps	Off
Phase resolution	100 %	Individual ADC maps	Off
			Off
Phase partial Fourier	6/8 Off	FA maps	
Interpolation	Off	Mosaic	On Off
PAT mode	None	Tensor	Off
Matrix Coil Mode	Auto (CP)	Noise level	40
		Diff. directions	64
Distortion Corr.	Off	Sequence	
Prescan Normalize	Off	Introduction	Off
Raw filter	On	Bandwidth	1624 Hz/Px
Elliptical filter	Off	Free echo spacing	Off
Hamming	Off	Echo spacing	0.72 ms
Goometry		Lono spacing	U.1 Z 1113
Geometry	lata da escad	EPI factor	110
Multi-slice mode	Interleaved	Gradient mode	Fast
Series	Interleaved	RF spoiling	Off
1			

Excite pulse duration 2560 us Refocus pulse duration 5120 us Diffusion Scheme Monopolar Single-band images Off MB LeakBlock kernel Off MB RF phase scramble Off Time-shifted MB RF Off Invert RO/PE polarity Off Online multi-band recon. Online

1.00

Off

FFT scale factor

Physio recording

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\DWI B=0 PA- AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
	5g.c	Table position	Н
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	P >> A	Auto Coil Select	Default
Rotation	180.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3240 ms		
TE	76.2 ms	Adjustment Tolerance	Auto
Multi-band accel. factor	3	Adjust volume	laggantar
Filter	None	Position	Isocenter
Coil elements	BC	Orientation	Transversal
Contract		Rotation	180.00 deg
Contrast	0"	R >> L	220 mm
MTC	Off	A >> P	220 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg	Physio	
Refocus flip angle	180 deg	1st Signal/Mode	None
Fat suppr.	Fat sat.	1	
Grad. rev. fat suppr.	Enabled	Diff	
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On
Multiple series	Off	Trace weighted images	Off
·		Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	110	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
		Seguence	
Matrix Coil Mode	Auto (CP)	Sequence	Off
Distortion Corr.	Off	Introduction	011 1624 Hz/Px
Prescan Normalize	Off	Bandwidth	-
Raw filter	On	Free echo spacing	Off
Elliptical filter	Off	Echo spacing	0.72 ms
Hamming	Off	EPI factor	110
•		Gradient mode	Fast
Geometry		- RF spoiling	Off
Multi-slice mode	Interleaved	Excite pulse duration	
Series	Interleaved	L voite pulee duretien	2560 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\DWI B=0 AP- AX

USER: cmrr_mbep2d_diff

Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00

TA: 0:16

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	On
After measurement		HEP	Off
Load to viewer	On	HEA	Off
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
·	J.	Table position	H
Routine		Table position	0 mm
Slice group 1		MSMA	S - C - T
Slices	72	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	Isocenter	Transversal	F >> H
Orientation	Transversal	Coil Combine Mode	Sum of Squares
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0.00 deg	Shim mode	Standard
Phase oversampling	0 %	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	3240 ms	Adjustment Tolerance	Auto
TE	76.2 ms	Adjust volume	Auto
Multi-band accel. factor	3	Position	Isocenter
Filter	None	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contrast		Rotation R >> L	220 mm
MTC	Off	- K >> L - A >> P	220 mm
Magn. preparation	None	F >> H	144 mm
Flip angle	90 deg		144 11111
Refocus flip angle	180 deg	Physio	
Fat suppr.	Fat sat.	1st Signal/Mode	None
	Enabled	Diff	
Grad. rev. fat suppr.			MDDW
Averaging mode	Long term	Diffusion mode	MDDW
Reconstruction	Magnitude	Diff. weightings	1
Measurements	1	b-value	0 s/mm²
Delay in TR	0 ms	Diff. weighted images	On O"
Multiple series	Off	Trace weighted images	Off
•		Average ADC maps	Off
Resolution	110	Individual ADC maps	Off
Base resolution	110	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	6/8	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	None	Diff. directions	64
Matrix Coil Mode	Auto (CP)	Sequence	
·······································		Introduction	Off
Distortion Corr.	Off	Bandwidth	1624 Hz/Px
Prescan Normalize	Off	Free echo spacing	Off
Raw filter	On	Echo spacing	0.72 ms
Elliptical filter	Off	spacifig	U.1 Z 1115
Hamming	Off	EPI factor	110
•		Gradient mode	Fast
Geometry	lataria ava d	- RF spoiling	Off
Multi-slice mode Series	Interleaved Interleaved	Excite pulse duration	2560 us

Diffusion Scheme	Monopolar
Single-band images	Off
MB LeakBlock kernel	Off
MB RF phase scramble	Off
Time-shifted MB RF	Off
Invert RO/PE polarity	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off

\\USEI	R\CMI\HumanPhantom\Huma	an_Phantom_Modi\Despot	1 -SAG
TA: 5:00	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER:	despot1_baby
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	On
	Oii	Intensity	Weak
Before measurement		Slope	25
After measurement	0-	Elliptical filter	Off
Load to viewer	On Off	Coometry	
Inline movie	Off	Geometry	On manufal
Auto store images	On	Multi-slice mode	Sequential
Load to stamp segments	On Off	Series	Ascending
Load images to graphic	Off	System	
segments	0"	Body	On
Auto open inline display	Off	HE2	Off
Start measurement without	On	HE4	Off
further preparation	0#	HE1	Off
Wait for user to start	Off	HE3	Off
Start measurements	single		
Routine		Positioning mode	REF
Slab group 1		Table position	H
Slabs	1	Table position	0 mm
Dist. factor	20 %	MSMA	S - C - T
Position	Isocenter	Sagittal	R >> L
Orientation	Sagittal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg	Save uncombined	Off
Phase oversampling	0 %	Coil Combine Mode	Adaptive Combine
Slice oversampling	0.0 %	Auto Coil Select	Default
Slices per slab	96	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	1.80 mm	Assume Silicone	Off
TR	5.2 ms	? Ref. amplitude 1H	0.000 V
TE	2.4 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	BC	Rotation	0.00 deg
Contract		R >> L	350 mm
Contrast	40 da a	A >> P	263 mm
Flip angle	16 deg	F >> H	350 mm
Averaging mode	Short term	Physic	
Reconstruction	Magnitude	Physio	Nana
Measurements	8	1st Signal/Mode	None
Pause after meas. 1	0.0 s	Inline	
Pause after meas. 2	0.0 s	Subtract	Off
Pause after meas. 3	0.0 s	Std-Dev-Sag	Off
Pause after meas. 4	0.0 s	Std-Dev-Cor	Off
Pause after meas. 5	0.0 s	Std-Dev-Tra	Off
Pause after meas. 6	0.0 s	Std-Dev-Time	Off
Pause after meas. 7	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
Resolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution	90 %	Sequence	
Phase partial Fourier	6/8	Introduction	Off
Slice partial Fourier	7/8	Dimension	3D
Interpolation	Off	Elliptical scanning	On
		Contrasts	1
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px
Image Filter	Off		
Distortion Corr.	Off	RF pulse type	Low SAR
Prescan Normalize	Off	Gradient mode	Fast
Normalize	Off	RF spoiling	On
1			

IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	37.8 deg
Gradient Spoiler Factor	0.3
Baby Mode	Off

\\USER\CMI\\HumanPhantom\\Human_Phantom_Modi\IR SPGR -SAG

TA: 0:53 Voxel size: 1.7x1.7x3.6 mm Rel. SNR: 1.00 USER: despot1_baby				
Properties		Series	Ascending	
Prio Recon	Off	System		
Before measurement		Body	On	
After measurement		HE2	Off	
Load to viewer	On	HE4	Off	
Inline movie	Off	HE1	Off	
Auto store images	On	HE3	Off	
Load to stamp segments	On			
Load images to graphic	Off	Positioning mode	FIX	
segments		Table position	Н	
Auto open inline display	Off	Table position	0 mm	
Start measurement without	Off	MSMA	S - C - T	
further preparation		Sagittal	R >> L	
Wait for user to start	Off	Coronal	A >> P	
Start measurements	single	Transversal	F >> H	
	- 3 -	Save uncombined	Off	
Routine		Coil Combine Mode	Adaptive Combine	
Slab group 1		Auto Coil Select	Default	
Slabs	1	Shim mode	Tune up	
Dist. factor	20 %	Adjust with body coil	Off	
Position	Isocenter	Confirm freq. adjustment	Off	
Orientation	Sagittal	Assume Silicone	Off	
Phase enc. dir.	A >> P	? Ref. amplitude 1H	0.000 V	
Rotation	0.00 deg	Adjustment Tolerance	Auto	
Phase oversampling	0 %	Adjust volume	Auto	
Slice oversampling	0.0 %	Position	Isocenter	
Slices per slab	48	Orientation	Transversal	
FoV read	220 mm			
FoV phase	100.0 %	Rotation R >> L	0.00 deg	
Slice thickness	3.60 mm	A >> P	350 mm	
TR	5.3 ms		263 mm	
TE	2.4 ms	F >> H	350 mm	
Averages	1	Physio		
Concatenations	1	1st Signal/Mode	None	
Filter	Raw filter	1		
Coil elements	BC	Inline	2"	
Contrast		Subtract	Off	
		Std-Dev-Sag	Off	
Flip angle	5 deg	Std-Dev-Cor	Off	
Averaging mode	Short term	Std-Dev-Tra	Off	
Reconstruction	Magnitude	Std-Dev-Time	Off	
Measurements	1	MIP-Sag	Off	
Multiple series	Off	MIP-Cor	Off	
·		MIP-Tra	Off	
Resolution		MIP-Time	Off	
Base resolution	128	Save original images	On	
Phase resolution	100 %	Sequence		
Slice resolution	100 %	Introduction	Off	
Phase partial Fourier	Off	Dimension	3D	
Slice partial Fourier	6/8	Elliptical scanning	On	
Interpolation	Off		1	
Matrix Coil Mode	Auto (CP)	Bandwidth	350 Hz/Px	
Image Filter	Off	RF pulse type	Low SAR	
Distortion Corr.	Off	Gradient mode	Fast	
Prescan Normalize	Off	RF spoiling	On	
Normalize	Off			
B1 filter	Off	IR Mode	On	
Raw filter	On	Inversion time	400 ms	
Intensity	Weak	RF pulse duration	0.8 ms	
Slope	25	RF pulse TBW	3.0	
Elliptical filter	Off	RF Spoil Increment	37.8 deg	
•	OII	Gradient Spoiler Factor	0.3	
Geometry Multi-slice mode	Sequential	Baby Mode	Off	

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\Despot 2 -SAG

TA: 8:38	Voxel size: 1.8×1.7×1.8 mm	Rel. SNR: 1.00 USER: o	despot2_baby2
Properties		Slice partial Fourier	7/8 Off
Prio Recon	Off		
Before measurement		Matrix Coil Mode	Auto (CP)
After measurement Load to viewer	On	Image Filter	Off
Inline movie	Off	Distortion Corr.	Off
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	On	Normalize	Off
Load images to graphic	Off	B1 filter	Off
segments		Raw filter Intensity	On Medium
Auto open inline display	Off	Slope	48
Start measurement without	On	Elliptical filter	Off
further preparation	0"		
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
Routine		Series	Ascending
Slab group 1		System	
Slabs	1	Body	On
Dist. factor	20 %	HE2	Off
Position	Isocenter	HE4	Off
Orientation	Sagittal A >> P	HE1	Off
Phase enc. dir. Rotation	0.00 deg	HE3	Off
Phase oversampling	0.00 deg 0 %	Positioning mode	FIX
Slice oversampling	0.0 %	Table position	Н
Slices per slab	96	Table position	0 mm
FoV read	220 mm	MSMA	S - C - T
FoV phase	100.0 %	Sagittal	R >> L
Slice thickness	1.80 mm	Coronal	A >> P
TR	5.40 ms	Transversal	F >> H
TE	2.700 ms	Save uncombined	Off
Averages	1	Coil Combine Mode Auto Coil Select	Adaptive Combine Default
Concatenations	1	Auto Coli Select	
Filter	Raw filter	Shim mode	Tune up
Coil elements	BC	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Flip angle	60 deg	Assume Silicone	Off
Averaging mode	Short term	? Ref. amplitude 1H Adjustment Tolerance	0.000 V Auto
Reconstruction	Magnitude	Adjust volume	Auto
Measurements	16	Position	Isocenter
Pause after meas. 1	0.0 s	Orientation	Transversal
Pause after meas. 2	0.0 s	Rotation	0.00 deg
Pause after meas. 3	0.0 s	R >> L	350 mm
Pause after meas. 4	0.0 s	A >> P	263 mm
Pause after meas. 5	0.0 s	F >> H	350 mm
Pause after meas. 6	0.0 s	Physio	
Pause after meas. 7	0.0 s	1st Signal/Mode	None
Pause after meas. 8	0.0 s		.40110
Pause after meas. 9	0.0 s	Inline	
Pause after meas. 10 Pause after meas. 11	0.0 s 0.0 s	Subtract	Off
Pause after meas. 12	0.0 s 0.0 s	Std-Dev-Sag	Off
Pause after meas. 12	0.0 s	Std-Dev-Cor Std-Dev-Tra	Off Off
Pause after meas. 14	0.0 s	Std-Dev-Time	Off
Pause after meas. 15	0.0 s	MIP-Sag	Off
Multiple series	Off	MIP-Cor	Off
Resolution		MIP-Tra	Off
Base resolution	128	MIP-Time	Off
Phase resolution	95 %	Save original images	On
Slice resolution	90 %		
Phase partial Fourier	5/8	Sequence	Off
acc partial i cultor	5, 5	Introduction	Oli

Dimension Elliptical scanning Contrasts Bandwidth	3D Off 1 350 Hz/Px
RF pulse type	Low SAR
Gradient mode	Fast
RF spoiling	Off
IR Mode	Off
Dummy pulses	300
Incremented FA Mode	On
mcDESPOT FA Mode	On
Number of FA Increments	8
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off

 $\verb|\USER\CMI\HumanPhantom\Human_Phantom_Modi\MT\ OFF\ -SAG| \\$

TA: 6:41 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 SIEMENS: gre			
Describes		Normalize	Off
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement		Elliptical filter	Off
After measurement	On	Coometry	
Load to viewer Inline movie	On Off	Geometry Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On		······
Load images to graphic	Off	Saturation mode	Standard
segments	3	Special sat.	None
Auto open inline display	Off		
Start measurement without	On	Tim CT mode	Off
further preparation		System	
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
Routine		HEA	On
		SP4	Off
Slab group 1 Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation	Sagittal	SP3	Off
Phase enc. dir.	A >> P	SP1	Off
Rotation	0.00 deg	SP7	Off
Phase oversampling	0 %	SP5	Off
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	176	Table position	H
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1 Name	Coil Combine Mode	Adaptive Combine
Filter Coil elements	None	Auto Coil Select	Default
Con elements	HEA;HEP	Shim mode	Tune up
Contrast		Adjust with body coil	Off
MTC	Off	Confirm freq. adjustment	Off
Magn. preparation	None	Assume Silicone	Off
Flip angle	15 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	
Averaging mode	Short term	Position	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
Resolution		A >> P	263 mm
Base resolution	256	F >> H	350 mm
Phase resolution	100 %	Physio	
Slice resolution	100 %	1st Signal/Mode	None
Phase partial Fourier	6/8	Segments	1
Slice partial Fourier	6/8	Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE Ref. lines PE	2 32	Inline	
Matrix Coil Mode	Auto (Triple)	Subtract	Off
Reference scan mode	Integrated	Liver registration	Off
		Std-Dev-Sag	Off
Image Filter	Off	Std-Dev-Cor	Off
Distortion Corr.	Off	Std-Dev-Tra	Off
Prescan Normalize	Off	Std-Dev-Time	Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

 $\verb|\USER\CMI\HumanPhantom\Human_Phantom_Modi\MT ON -SAG| \\$

TA: 6:41 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 SIEMENS: gre			
D		Normalize	Off
Properties		B1 filter	Off
Prio Recon	Off	Raw filter	Off
Before measurement		Elliptical filter	Off
After measurement		1 .	
Load to viewer	On	Geometry	
Inline movie	Off	Multi-slice mode	Interleaved
Auto store images	On	Series	Interleaved
Load to stamp segments	On	Saturation mode	Standard
Load images to graphic	Off	Special sat.	None
segments			
Auto open inline display	Off	Tim CT mode	Off
Start measurement without	On	ı	Oli
further preparation		System	
Wait for user to start	Off	Body	Off
Start measurements	single	HEP	On
Routine		HEA	On
Slab group 1		SP4	Off
Slabs	1	SP2	Off
Dist. factor	20 %	SP8	Off
Position	Isocenter	SP6	Off
Orientation		SP3	Off
Phase enc. dir.	Sagittal A >> P	SP1	Off
		SP7	Off
Rotation	0.00 deg	SP5	Off
Phase oversampling	0 %		
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	176	Table position	Н
FoV read	256 mm	Table position	0 mm
FoV phase	100.0 %	MSMA	S - C - T
Slice thickness	1.00 mm	Sagittal	R >> L
TR	30 ms	Coronal	A >> P
TE	11.00 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	1	Coil Combine Mode	Adaptive Combine
Filter	None	Auto Coil Select	Default
Coil elements	HEA;HEP	Shim mode	Tuno un
Contrast		Adjust with body coil	Tune up Off
MTC	On		Off
Magn. preparation	None	Confirm freq. adjustment Assume Silicone	Off
Flip angle	15 deg		
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Water suppr.	None	Adjustment Tolerance	Auto
		Adjust volume	laggenter
Averaging mode	Short term	Position Orientation	Isocenter
Reconstruction	Magnitude	Orientation	Transversal
Measurements	1	Rotation	0.00 deg
Multiple series	Each measurement	R >> L	350 mm
Resolution		A >> P F >> H	263 mm
Base resolution	256	г >> п	350 mm
Phase resolution	100 %	Physio	
		1st Signal/Mode	None
Slice resolution	100 %	Segments	1
Phase partial Fourier	6/8		
Slice partial Fourier	6/8 Off	Tagging	None
Interpolation	Off	Dark blood	Off
PAT mode	GRAPPA	Resp. control	Off
Accel. factor PE		1	
/ tocci. idotor i L	2		
Ref. lines PE	2 32	Inline	
	32	Subtract	Off
Ref. lines PE	32 Auto (Triple)	Subtract Liver registration	Off
Ref. lines PE Matrix Coil Mode Reference scan mode	32 Auto (Triple) Integrated	Subtract	_
Ref. lines PE Matrix Coil Mode Reference scan mode Image Filter	32 Auto (Triple) Integrated Off	Subtract Liver registration	Off
Ref. lines PE Matrix Coil Mode Reference scan mode	32 Auto (Triple) Integrated	Subtract Liver registration Std-Dev-Sag	Off Off

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
Sequence	
Introduction Dimension Elliptical scanning Phase stabilisation Asymmetric echo Contrasts Bandwidth Flow comp.	On 3D On Off Off 1 350 Hz/Px No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

\\USER\CMI\HumanPhantom\Human_Phantom_Modi\T2 FLAIR Voxel size: 0.9×0.9×5.0 mm Rel. SNR: 1.00

SIEMENS: tse

PAT: 2

TA: 2:44

		Distortion Corr.	Off
Properties		Prescan Normalize	Off
Prio Recon	Off	Normalize	On
Before measurement		Intensity	Medium
After measurement		Cut off	20
Load to viewer	On		-
Inline movie	Off	Width	4
Auto store images	On	Unfiltered images	Off
Load to stamp segments	Off	B1 filter	Off
Load images to graphic	Off	Raw filter	Off
	Oil	Elliptical filter	On
segments	0"	Mode	Inplane
Auto open inline display	Off	0	
Start measurement without	On	Geometry	
further preparation		Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Interleaved
Start measurements	single	Special act	None
Routine		Special sat.	
		_	
Slice group 1	00	Tim CT mode	Off
Slices	22	System	
Dist. factor	30 %	Body	Off
Position	Isocenter	HEP	On
Orientation	Transversal		
Phase enc. dir.	R >> L	HEA	On
Rotation	90.00 deg	Positioning mode	FIX
Phase oversampling	0 %	Table position	Н
FoV read	230 mm	Table position	0 mm
FoV phase	87.5 %	MSMA	S - C - T
Slice thickness	5.0 mm		
TR	9000 ms	Sagittal	R >> L
		Coronal	A >> P
TE .	89.0 ms	Transversal	F >> H
Averages	1	Save uncombined	Off
Concatenations	2	Coil Combine Mode	Adaptive Combine
Filter	Normalize, Elliptical filter	Auto Coil Select	Default
Coil elements	HEA;HEP		0: 1 1
Contrast		Shim mode Adjust with body coil	Standard Off
TD	0.0 ms	Confirm freq. adjustment	Off
MTC	Off		
Magn. preparation	Slice-sel. IR	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
<u>T</u> I	2500 ms	Adjustment Tolerance	Auto
Freeze suppressed tissue	On	Adjust volume	
Flip angle	150 deg	Position	Isocenter
Fat suppr.	Fat sat.	Orientation	Transversal
Fat sat. mode	Strong	Rotation	90.00 deg
Water suppr.	None	A >> P	230 mm
Restore magn.	Off	R >> L	202 mm
	Ol	F >> H	142 mm
Averaging mode	Short term	1 >>11	172 111111
Reconstruction	Magnitude	Physio	
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement		
Resolution		Dark blood	Off
Base resolution	256	Resp. control	Off
		rtoop. control	311
Phase resolution	100 %	Inline	
Phase partial Fourier	Off	Subtract	Off
Trajectory	Cartesian	Std-Dev-Sag	Off
Interpolation	On	Std-Dev-Cor	Off
DAT	CDADDA	Std-Dev-Tra	Off
PAT mode	GRAPPA		_
Accel. factor PE	2	Std-Dev-Time	Off Off
Ref. lines PE	31	MIP-Sag	Off
Matrix Coil Mode	Auto (Triple)	MIP-Cor	Off
Reference scan mode	Integrated	MIP-Tra	Off
Innone Filter		MIP-Time	Off
Image Filter	Off	Save original images	On
		•	

Sequence

Introduction Dimension	On 2D
Compensate T2 decay	Off
Reduce Motion Sens.	On
Contrasts	1
Bandwidth	190 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	9.92 ms
Define	Turbo factor
Turbo factor	16
Echo trains per slice	8
RF pulse type	Normal
Gradient mode	Normal

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CMI **HBN** V1 Abdomen Localizer Abdomen Dixon Breathhold -- Switch to Head Coil --**Brain Localizer Motion Training** Brain Localizer Resting State 2.5mm Field Map -- Anatomicals, Pt Can Watch Movie or Listen to Music --T1W MEMPRAGE - SAG DWI B=0 PA - AX DKI 64 Directions AP 3 WEIGHTS- AX DWI B=0 PA- AX DWI B=0 AP- AX -- Check In with Pt --Despot 1 -SAG IR SPGR -SAG -- Check In with Pt --Despot 2 -SAG -- Check In with Pt --MT OFF -SAG MT ON -SAG T2 FLAIR SerialScanning Scan1 **Brain Localizer** Motion Training **Brain Localizer** Resting State 2.5mm --Insert HCP task here--Field Map -- Anatomicals, Pt Can Watch Movie or Listen to Music --T1W MEMPRAGE - SAG DWI B=0 PA - AX DKI 64 Directions AP 3 WEIGHTS- AX DWI B=0 PA- AX DWI B=0 AP- AX -- Check In with Pt --Despot 1 -SAG IR SPGR -SAG -- Check In with Pt --Despot 2 -SAG -- Check In with Pt --MT OFF -SAG MT ON -SAG T2 FLAIR _Pause_ OPTIONS **HCP_Working Memory** HCP_Gambling HCP_Motor HCP_Language HCP_Social_Cog **HCP_Relational Processing HCP_Emotional Processing** Story_Corps_A Story_Corps_B Story_Corps_C Story_Corps_D Breathhold_CMRR BreathHold MGH

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CMI

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SerialScanning
       Scan1
               MSIT_ MGH
               MSIT_CMRR
       Scan2
               Brain Localizer
               Motion Training
               Brain Localizer
               Resting State 2.5mm
               Movie 2.5mm
               Inscapes 2.5mm
               Flanker_Task
               Field Map
               -- Anatomicals, Pt Can Watch Movie or Listen to Music --
               T1W MEMPRAGE - SAG
               DWI B=0 PA- AX
               DKI 64 Directions AP 3 WEIGHTS- AX
               DWI B=0 PA - AX
               DWI B=0 AP- AX
                Pause_OPTIONS
               HCP_Working Memory
               HCP_Gambling
               HCP_Motor
               HCP_Language
               HCP_Social_Cog
               HCP_Relational Processing
               HCP_Emotional Processing
               Story_Corps_A
               Story_Corps_B
               Story_Corps_C
               Story_Corps_D
               Breathhold_CMRR
               BreathHold MGH
               MSIT_ MGH
               MSIT_CMRR
               VAM_ MGH
               VAM_CMRR
       Raiders
               Brain Localizer
               Motion Training
               Brain Localizer
                Pause Insert HCP Task here Prior to video.
               Raiders_1
               Raiders_2
               Raiders_3
               Raiders 4
               Raiders 5
               Raiders 6
               Field Map
                _ HCP _OPTIONS_
               HCP_Working Memory
               HCP_Gambling
               HCP_Motor
               HCP_Language
               HCP_Social_Cog
               HCP_Relational Processing
               HCP_Emotional Processing
PhantomScanning
       phannie_quant
               localizer
               Despot 1 -SAG
               IR SPGR -SAG
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CMI **PhantomScanning** phannie_quant Despot 2 -SAG MT OFF -SAG MT ON -SAG -- Phannie Recommended Protocol (GE) --Isotropic Scan PD SNR PD SNR T1 Mapping VFA 2 T1 Mapping VFA 5 T1 Mapping VFA 10 T1 Mapping VFA 15 T1 Mapping VFA 20 T1 Mapping VFA 25 T1 Mapping VFA 30 -- Extended Protocol (GE) --T1 MAP VTI 35 T1 MAP VTI 75 T1 MAP VTI 100 T1 MAP VTI 125 T1 MAP VTI 150 T1 MAP VTI 250 T1 MAP VTI 1000 T1 MAP VTI 1500 T1 MAP VTI 2000 T1 MAP VTI 3000 T2 Map 15s T2 Map 25s T2 Map 40s Resolution Insert Section Thickness 3mm Section Thickness 5mm phannie extras T2 ME 15 T2 ME 30 T2 ME 45 T2 ME 60 T2 ME 25 T2 ME 50 T2 ME 75 T2 ME 100 T2 ME 40 T2 ME 80 T2 ME 120 T2 ME 160 fbirnx **Brain Localizer** Resting State 2.5mm MB3_CMRR Resting State 2.5mm noMB Resting State 2.5mm MB3 MGH Brain Localizer w/FatHat Resting State 2.5mm MB3_CMRR w/FatHat Resting State 2.5mm noMB w/FatHat Resting State 2.5mm MB3 MGH w/FatHat ep2d_bold_send_motion DTlphantom **Brain Localizer**

> Diff Calibration DWI B=0 PA - AX

DWI B=0 PA- AX

DKI 64 Directions AP 3 WEIGHTS- AX

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CMI
        PhantomScanning
                DTIphantom
                        DWI B=0 AP- AX
                        Siemens DKI
                headphone
                        t1_mpr_ns_sag_p2_iso
                test_moco
                        localizer
                        ep2d_bold_send_motion
        HumanPhantom
                Human_Phantom
                        Abdomen Localizer
                        Abdomen Dixon Breathhold
                        -- Switch to Head Coil --
                        Brain Localizer
                        Motion Training
                        Brain Localizer
                        Resting State 2.5mm
                        Field Map
                        -- Anatomicals, Pt Can Watch Movie or Listen to Music --
                        T1W MEMPRAGE - SAG
                        DWI B=0 PA - AX
                        DKI 64 Directions AP 3 WEIGHTS- AX
                        DWI B=0 PA- AX
                        DWI B=0 AP- AX
                        -- Check In with Pt --
                        Despot 1 -SAG
                        IR SPGR -SAG
                         -- Check In with Pt --
                        Despot 2 -SAG
                        -- Check In with Pt --
                        MT OFF -SAG
                        MT ON -SAG
                        T2 FLAIR
                Human_Phantom_Modi
                        Abdomen Localizer
                        Abdomen Dixon Breathhold
                        -- Switch to Head Coil --
                        Brain Localizer
                        Motion Training
                        Brain Localizer
                        Resting State 2.5mm
                        Field Map
                        -- Anatomicals, Pt Can Watch Movie or Listen to Music --
                        T1W MEMPRAGE - SAG
                        DWI B=0 PA - AX
                        DKI 64 Directions AP 3 WEIGHTS- AX
                        DWI B=0 PA- AX
                        DWI B=0 AP- AX
                        -- Check In with Pt --
                        Despot 1 -SAG
                        IR SPGR -SAG
                         -- Check In with Pt --
                        Despot 2 -SAG
                         -- Check In with Pt --
                        MT OFF -SAG
                        MT ON -SAG
                        T2 FLAIR
```