$\verb|\USER\Brain\KCL171467_STRATIFY\v1\localizer| \\$

SIEMENS: gre

PAT: Off Voxel size: 1.1x1.0x7.0 mm Rel. SNR: 1.00

TA: 0:14

			-
		Dhaga partial Fauriar	Off
Properties		Phase partial Fourier Interpolation	Off On
Prio Recon	Off		OII
Before measurement		PAT mode	None
After measurement		Matrix Coil Mode	Auto (CP)
Load to viewer	On	Image Filter	Off
Inline movie	Off	Image Filter Distortion Corr.	Off
Auto store images	On		Off
Load to stamp segments	Off	Prescan Normalize	
Load images to graphic	Off	Normalize	On Off
segments		B1 filter	Off
Auto open inline display	Off	Raw filter	Off
Start measurement without	Off	Elliptical filter	On
further preparation		Mode	Inplane
Wait for user to start	Off	Geometry	
Start measurements	single	Multi-slice mode	Sequential
Routine		Series	Interleaved
Slice group 1		Coturction	
Slice group 1	1	Saturation mode	Standard
Dist. factor	20 %	Special sat.	None
Position	Isocenter		
Orientation	Sagittal	Tim CT mode	Off
Phase enc. dir.	A >> P	System	
Rotation	0.02 deg	Body	Off
	0.02 d e g	HEP	On
Slice group 2 Slices	4	HEA	On
Dist. factor	1 20 %	11LA	OII
Position	L1.2 P21.2 H3.7	Positioning mode	FIX
Orientation	Transversal	Table position	Н
		Table position	0 mm
Phase enc. dir.	A >> P	MSMA	S - C - T
Rotation	-0.07 deg	Sagittal	R >> L
Slice group 3	4	Coronal	A >> P
Slices	1	Transversal	F >> H
Dist. factor	20 %	Save uncombined	Off
Position	L1.5 P0.6 H5.9	Coil Combine Mode	Adaptive Combine
Orientation	Coronal	AutoAlign	
Phase enc. dir.	R >> L	Auto Coil Select	Off
Rotation	0.01 deg	Ol-:	T
Phase oversampling	0 %	Shim mode	Tune up
FoV read	250 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	7.0 mm	Assume Silicone	Off
TR	8.6 ms	? Ref. amplitude 1H	0.000 V
ŢE	4.00 ms	Adjustment Tolerance	Auto
Averages	2	Adjust volume	
Concatenations	Name alice Elliptical filter	Position	Isocenter
Filter	Normalize, Elliptical filter	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
Contrast		R >> L	350 mm
TD	0 ms	— A >> P	263 mm
MTC	Off	F >> H	350 mm
Magn. preparation	None	Physio	
Flip angle	20 deg	1st Signal/Mode	None
Fat suppr.	None	Segments	1
Water suppr.	None		•
SWI	Off	Dark blood	Off
	∵ ⊓	Doop santral	O#
Averaging mode	Short term	Resp. control	Off
Reconstruction	Magnitude	Inline	
Measurements	1	Subtract	Off
Multiple series	Each measurement	Liver registration	Off
•		Std-Dev-Sag	Off
Resolution	250	Std-Dev-Cor	Off
Base resolution	256	Std-Dev-Tra	Off
Phase resolution	91 %	1/4	- ··

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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\Brain\KCL171467_STRATIFY\v1\ax_t2_tse

TA: 3:41	PAT: 2 Voxel size: 0.8×0.8×4	l.0 mm Rel. SNR: 1.00 S	SIEMENS: tse
Description		Unfiltered images	Off
Properties		Unfiltered images	Off
Prio Recon	Off	Prescan Normalize	On
Before measurement		Normalize	Off
After measurement		B1 filter	Off
Load to viewer	On	Raw filter	Off
Inline movie	On		
Auto store images	On	Elliptical filter	Off
Load to stamp segments	On	Geometry	
Load images to graphic	On	Multi-slice mode	Interleaved
segments	3. .	Series	Interleaved
Auto open inline display	Off		
Start measurement without	On	Special sat.	None
	OII		
further preparation		Tim CT mode	Off
Wait for user to start	On	Tim OT mode	Oli
Start measurements	single	System	
Routine		Body	Off
		HEP	On
Slice group 1	00	HEA	On
Slices	36		
Dist. factor	0 %	Positioning mode	REF
Position	Isocenter	Table position	Н
Orientation	Transversal	Table position	0 mm
Phase enc. dir.	L >> R	MSMA	S - C - T
Rotation	-90.00 deg	Sagittal	R >> L
Phase oversampling	0 %	Coronal	A >> P
FoV read	240 mm		
FoV phase	100.0 %	Transversal	F >> H
Slice thickness	4.0 mm	Save uncombined	Off
TR	4380 ms	Coil Combine Mode	Adaptive Combine
		AutoAlign	
TE	65 ms	Auto Coil Select	Off
Averages	1	China wa a da	Otendend
Concatenations	2	Shim mode	Standard
Filter	Distortion Corr.(2D), Prescan	Adjust with body coil	Off
	Normalize	Confirm freq. adjustment	Off
Cail alamanta	HEA;HEP	Assume Silicone	Off
Coil elements		? Ref. amplitude 1H	0.000 V
1		r Keil ampillude in	0.000 V
Contrast		Adjustment Tolerance	Auto
Contrast TD	0.0 ms	Adjustment Tolerance	
Contrast TD MTC	Off	Adjustment Tolerance Adjust volume	Auto
Contrast TD MTC Magn. preparation		Adjustment Tolerance Adjust volume Position	Auto Isocenter
Contrast TD MTC	Off	Adjustment Tolerance Adjust volume Position Orientation	Auto Isocenter Transversal
Contrast TD MTC Magn. preparation Flip angle	Off None	Adjustment Tolerance Adjust volume Position Orientation Rotation	Auto Isocenter Transversal -90.00 deg
Contrast TD MTC Magn. preparation Flip angle Fat suppr.	Off None 150 deg	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P	Auto Isocenter Transversal -90.00 deg 240 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr.	Off None 150 deg None None	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr.	Off None 150 deg None	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P	Auto Isocenter Transversal -90.00 deg 240 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr.	Off None 150 deg None None	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn.	Off None 150 deg None None Off	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode	Off None 150 deg None None Off	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements	Off None 150 deg None None Off Long term Magnitude 1	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series	Off None 150 deg None None Off Long term Magnitude	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution	Off None 150 deg None None Off Long term Magnitude 1 Each measurement	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series	Off None 150 deg None None Off Long term Magnitude 1	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution	Off None 150 deg None None Off Long term Magnitude 1 Each measurement	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 %	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Phase resolution Phase partial Fourier	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 % Off	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Phase resolution Phase partial Fourier Trajectory	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Phase resolution Phase partial Fourier	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 % Off	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Phase resolution Phase partial Fourier Trajectory	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Phase resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	Off None 150 deg None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39 Auto (Triple)	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39 Auto (Triple) Integrated	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Image Filter	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39 Auto (Triple) Integrated Off	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O
Contrast TD MTC Magn. preparation Flip angle Fat suppr. Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	Off None 150 deg None None None Off Long term Magnitude 1 Each measurement 320 100 % Off Cartesian Off GRAPPA 2 39 Auto (Triple) Integrated	Adjustment Tolerance Adjust volume Position Orientation Rotation A >> P R >> L F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	Auto Isocenter Transversal -90.00 deg 240 mm 240 mm 144 mm None Off Off Off Off Off Off Off O

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

Bandwidth 195 Hz/Px
Flow comp. No
Allowed delay 120 s
Echo spacing 10.9 ms

Define Turbo factor

Turbo factor 15
Echo trains per slice 12
RF pulse type Low SAR
Gradient mode Fast

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		1 5	
roperties		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	Geometry	
Load to stamp segments	Off	Multi-slice mode	Interleaved
Load images to graphic	Off	Series	Interleaved
segments			
Auto open inline display	Off	Special sat.	Parallel F
Start measurement without	On	Gap	10 mm
further preparation		Thickness	50 mm
Wait for user to start	Off		
Start measurements	single	Tim CT mode	Off
	Single	System	
Outine Slice group 1		Body	Off
Slice group 1	26	HEP	On
Slices	36	HEA	On
Dist. factor	0 %		
Position	Isocenter	Positioning mode	FIX
Orientation	Transversal	Table position	Н
Phase enc. dir.	L >> R	Table position	0 mm
Rotation	-90.00 deg	MSMA	S - C - T
Phase oversampling	0 %	Sagittal	R >> L
FoV read	220 mm	Coronal	A >> P
FoV phase	87.5 %	Transversal	F >> H
Slice thickness	4.0 mm	Save uncombined	Off
TR	9000 ms	Coil Combine Mode	Adaptive Combine
TE	79.0 ms	AutoAlign	
Averages	1	Auto Coil Select	On
Concatenations	2	Auto Con Select	
Filter	Prescan Normalize, Elliptical	Shim mode	Standard
	filter	Adjust with body coil	Off
Coil elements	HEA;HEP	Confirm freq. adjustment	Off
	,	Assume Silicone	Off
ontrast		? Ref. amplitude 1H	0.000 V
TD	0.0 ms	Adjustment Tolerance	Auto
MTC	Off	Adjust volume	
Magn. preparation	Slice-sel. IR	Position	Isocenter
TI	2500 ms	Orientation	Transversal
Freeze suppressed tissue	On	Rotation	-90.00 deg
Flip angle	150 deg	A >> P	220 mm
Fat suppr.	Fat sat.	R >> L	193 mm
Fat sat. mode	Strong	F >> H	144 mm
Water suppr.	None	1 >>11	177 111111
Restore magn.	Off	Physio	
A. como mino er no o el n	Longitarin	1st Signal/Mode	None
Averaging mode	Long term	Dark blood	Off
Reconstruction	Magnitude	Daik Dioou	OII
Measurements	I Fack many	Resp. control	Off
Multiple series	Each measurement	Inline	
esolution		- Subtract	Off
Base resolution	320	Std-Dev-Sag	Off
Phase resolution	100 %	Std-Dev-Sag Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Cor Std-Dev-Tra	Off
Trajectory	Cartesian		
Interpolation	Off	Std-Dev-Time	Off
		MIP-Sag	Off
PAT mode	None	MIP-Cor	Off
Matrix Coil Mode	Auto (CP)	MIP-Tra	Off
Imago Filtor	Off	MIP-Time	Off
Image Filter Distortion Corr.	Off Off	Save original images	On
DISTORIOR COH	UII		

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

Bandwidth 289 Hz/Px
Flow comp. No
Allowed delay 60 s
Echo spacing 8.74 ms

Define Turbo factor

Turbo factor 16
Echo trains per slice 18
RF pulse type Normal
Gradient mode Fast

\\USER\Brain\KCL171467_STRATIFY\v1\MPRAGE_ADNI TA: 9:14 PAT: Off Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 SIEMENS: tfl				
17. J. 14 F	7.1. OII VOAGI SIZE. 1.0A1.0.			
Properties		Prescan Normalize	On O"	
Prio Recon	Off	- Normalize	Off	
Before measurement		B1 filter	Off	
After measurement		Raw filter	Off	
Load to viewer	On	Elliptical filter	Off	
Inline movie	Off	Geometry		
Auto store images	On	Multi-slice mode	Single shot	
Load to stamp segments	Off	Series	Interleaved	
Load images to graphic	Off			
segments	.	System		
Auto open inline display	Off	Body	Off	
Start measurement without	On	HEP	On	
further preparation		HEA	On	
Wait for user to start	Off			
Start measurements	single	Positioning mode	REF	
ı	Sirigio	Table position	Н	
Routine		Table position	0 mm	
Slab group 1		MSMA	S - C - T	
Slabs	1	Sagittal	R >> L	
Dist. factor	50 %	Coronal	A >> P	
Position	R2.4 A28.2 H1.9	Transversal	F >> H	
Orientation	Sagittal	Save uncombined	Off	
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine	
Rotation	0.00 deg	AutoAlign	'	
Phase oversampling	0 %	Auto Coil Select	Default	
Slice oversampling	10.0 %			
Slices per slab	160	Shim mode	Standard	
FoV read	256 mm	Adjust with body coil	Off	
FoV phase	93.8 %	Confirm freq. adjustment	Off	
Slice thickness	1.00 mm	Assume Silicone	Off	
TR	2300 ms	? Ref. amplitude 1H	0.000 V	
TE	2.98 ms	Adjustment Tolerance	Auto	
Averages	1	Adjust volume		
Concatenations	1	Position	R2.4 A28.2 H1.9	
Filter	Distortion Corr.(2D), Prescan	Orientation	Sagittal	
	Normalize	Rotation	0.00 deg	
Coil elements	HEA;HEP	F >> H	256 mm	
•		A >> P	240 mm	
Contrast		R >> L	160 mm	
Magn. preparation	Non-sel. IR	Physio		
<u>TI</u>	900 ms	1st Signal/Mode	None	
Flip angle	9 deg	15t Signarivioue		
Fat suppr.	None	Dark blood	Off	
Water suppr.	None		~"	
Averaging mode	Long term	Resp. control	Off	
Reconstruction	Magnitude	Inline		
Measurements	1	Subtract	Off	
Multiple series	Off	Std-Dev-Sag	Off	
•	Oli	Std-Dev-Cor	Off	
Resolution		Std-Dev-Tra	Off	
Base resolution	256	Std-Dev-Time	Off	
Phase resolution	100 %	MIP-Sag	Off	
Slice resolution	100 %	MIP-Cor	Off	
Phase partial Fourier	Off	MIP-Tra	Off	
Slice partial Fourier	Off	MIP-Time	Off	
Interpolation	Off	Save original images	On	
DAT de	NI	•	011	
PAT mode	None	Sequence		
Matrix Coil Mode	Auto (CP)	Introduction	On	
Image Filter	Off	Dimension	3D	
Distortion Corr.	On	Elliptical scanning	Off	
Mode	2D	Asymmetric echo	Off	
Unfiltered images	Off	Bandwidth	240 Hz/Px	
Unfiltered images	Off	Flow comp.	No	
Jimmoroa miagos	OII		7.4	
•		Echo spacing	7.1 ms	

 RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

\\USER\Brain\KCL171467_STRATIFY\v1\ep2d_bold_moco_p2_191_MID

TA: 7:07 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 USER: MEep2d_bold

Properties		Special sat.	None
Prio Recon	Off	'	140110
Before measurement	- ·-	System	
After measurement		Body	Off
Load to viewer	On	HEP	On
Inline movie	Off	HEA	On
Auto store images	On	Positioning mode	FIX
Load to stamp segments	Off	Positioning mode	H
Load images to graphic	Off	Table position	
segments	Oli	Table position	32 mm
Auto open inline display	Off	MSMA	S-C-T
Start measurement without	On	Sagittal	R >> L
	On	Coronal	A >> P
further preparation		Transversal	F >> H
Wait for user to start	On	Coil Combine Mode	Sum of Squares
Start measurements	single	AutoAlign	
Routine		Auto Coil Select	Default
Slice group 1		Shim mode	Standard
Slices	40	Adjust with body coil	Off
Dist. factor	42 %	Confirm freq. adjustment	Off
Position	L1.8 P7.8 H32.5	Assume Silicone	Off
Orientation	T > C-21.7 > S2.0	? Ref. amplitude 1H	0.000 V
Phase enc. dir.	P >> A	Adjustment Tolerance	
Rotation	180.00 deg		Auto
Phase oversampling	0 %	Adjust volume	14 0 87 0 1100 5
FoV read	218 mm	Position	L1.8 P7.8 H32.5
	_	Orientation	T > C-21.7 > S2.0
FoV phase	100.0 %	Rotation	180.00 deg
Slice thickness	2.4 mm	R >> L	218 mm
TR	2200 ms	A >> P	218 mm
TE	30 ms	F >> H	136 mm
Averages	1	Physio	
Filter	Prescan Normalize	1st Signal/Mode	None
Coil elements	HEA;HEP	1	None
Contrast		BOLD	
MTC	Off	GLM Statistics	Off
Flip angle	75 deg	Dynamic t-maps	Off
Fat suppr.	Fat sat.	Starting ignore meas	0
		Ignore after transition	0
Averaging mode	Long term	Model transition states	On
Reconstruction	Magnitude	Temp. highpass filter	On
Measurements	191	Threshold	4.00
Delay in TR	0 ms	Paradigm size	20
Multiple series	Off	Meas[1]	Baseline
Resolution		Meas[2]	Baseline
Base resolution	64	Meas[3]	Baseline
		Meas[4]	Baseline
Phase resolution	100 %		Baseline
Phase partial Fourier	O#	i ivieasioi	
Interpolation	Off	Meas[5] Meas[6]	
	Off Off	Meas[6]	Baseline
	Off	Meas[6] Meas[7]	Baseline Baseline
PAT mode	Off GRAPPA	Meas[6] Meas[7] Meas[8]	Baseline Baseline Baseline
PAT mode Accel. factor PE	Off GRAPPA 2	Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE Ref. lines PE	Off GRAPPA 2 24	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Baseline Baseline Baseline Baseline Baseline
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	Off GRAPPA 2 24 Auto (Triple)	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE	Off GRAPPA 2 24	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	Baseline Baseline Baseline Baseline Baseline Active Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	Off GRAPPA 2 24 Auto (Triple)	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	Baseline Baseline Baseline Baseline Baseline Active Active Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	Off GRAPPA 2 24 Auto (Triple) Separate	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Baseline Baseline Baseline Baseline Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr.	Off GRAPPA 2 24 Auto (Triple) Separate Off Off	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 Active Active Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17]	Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[17]	Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[18]	Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20]	Baseline Baseline Baseline Baseline Baseline Active
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[18]	Baseline Baseline Baseline Baseline Baseline Active

Spatial filter	Off
Sequence	
Introduction Contrasts Bandwidth Free echo spacing Echo spacing	Off 1 2004 Hz/Px On 0.58 ms
EPI factor RF pulse type Gradient mode	64 Normal Fast
Slew Rate Factor Grad Strength Factor Z Shim Value (mT/m) Use old zshim method Zshim only the first echo Reverse the PE blips for RGPM	1.00 x 1.00 x 0.000 Off Off Off

\\USER\Brain\KCL171467_STRATIFY\v1\ep2d_bold_moco_p2_202_FACES

TA: 7:31 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 USER: MEep2d_bold

Properties		Special sat.	None
Prio Recon	Off	— ' '	None
Before measurement		System	
After measurement		Body	Off
Load to viewer	On	HEP	On
Inline movie	Off	HEA	On
Auto store images	On	Positioning mode	FIX
Load to stamp segments	Off		H
Load images to graphic	Off	Table position Table position	п 32 mm
segments	3 11	MSMA	S - C - T
Auto open inline display	Off	_	
Start measurement without	On	Sagittal	R >> L
further preparation	OII	Coronal	A >> P
Wait for user to start	On	Transversal	F >> H
Start measurements	_	Coil Combine Mode	Sum of Squares
Start measurements	single	AutoAlign	D-4!t
Routine		Auto Coil Select	Default
Slice group 1		Shim mode	Standard
Slices	40	Adjust with body coil	Off
Dist. factor	42 %	Confirm freq. adjustment	Off
Position	L1.8 P7.8 H32.5	Assume Silicone	Off
Orientation	T > C-21.7 > S2.0	? Ref. amplitude 1H	0.000 V
Phase enc. dir.	P >> A	Adjustment Tolerance	Auto
Rotation	180.00 deg	Adjust volume	Auto
Phase oversampling	0 %	Position	L1.8 P7.8 H32.5
FoV read	218 mm	Orientation	T > C-21.7 > S2.0
FoV phase	100.0 %	Rotation	
Slice thickness	2.4 mm		180.00 deg
TR	2200 ms	R >> L	218 mm
TE	30 ms	A >> P	218 mm
	00 III8 1	F >> H	136 mm
Averages Filter	Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
Con elements	HEA,REF	1	
Contrast		BOLD	0#
MTC	Off	GLM Statistics	Off
Flip angle	75 deg	Dynamic t-maps	Off
Fat suppr.	Fat sat.	Starting ignore meas	0
Averaging made	Long torm	Ignore after transition	0
Averaging mode	Long term	Model transition states	On
Reconstruction	Magnitude	Temp. highpass filter	On
Measurements	202	Threshold	4.00
Delay in TR	0 ms	Paradigm size	20
Multiple series	Off	Meas[1]	Baseline
Resolution		Meas[2]	Baseline
Base resolution	64	— Meas[3]	Baseline
Phase resolution	100 %	Meas[4]	Baseline
I I HOUSE I COMMUNICATI		1	B "
	Off	Meas[5]	Baseline
Phase partial Fourier	Off	Meas[5] Meas[6]	Baseline Baseline
	Off Off	Meas[6]	
Phase partial Fourier		Meas[6] Meas[7]	Baseline
Phase partial Fourier Interpolation PAT mode	Off	Meas[6] Meas[7] Meas[8]	Baseline Baseline
Phase partial Fourier Interpolation	Off GRAPPA 2	Meas[6] Meas[7] Meas[8] Meas[9]	Baseline Baseline Baseline
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE	Off GRAPPA 2 24	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	Baseline Baseline Baseline Baseline Baseline
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	Off GRAPPA 2 24 Auto (Triple)	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11]	Baseline Baseline Baseline Baseline Baseline Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	Off GRAPPA 2 24 Auto (Triple) Separate	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	Baseline Baseline Baseline Baseline Baseline Active Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr.	Off GRAPPA 2 24 Auto (Triple)	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	Baseline Baseline Baseline Baseline Baseline Active Active Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	Off GRAPPA 2 24 Auto (Triple) Separate	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[13] Meas[14]	Baseline Baseline Baseline Baseline Baseline Active Active Active Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr.	Off GRAPPA 2 24 Auto (Triple) Separate Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images	Off GRAPPA 2 24 Auto (Triple) Separate Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Baseline Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize	Off GRAPPA 2 24 Auto (Triple) Separate Off Off On	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17]	Baseline Baseline Baseline Baseline Baseline Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter	Off GRAPPA 2 24 Auto (Triple) Separate Off Off On Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18]	Baseline Baseline Baseline Baseline Baseline Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[14] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19]	Baseline Baseline Baseline Baseline Baseline Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[14] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20]	Baseline Baseline Baseline Baseline Baseline Active
Phase partial Fourier Interpolation PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off GRAPPA 2 24 Auto (Triple) Separate Off Off Off On Off Off	Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[12] Meas[14] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19]	Baseline Baseline Baseline Baseline Baseline Active

Spatial filter	Off
Sequence	
Introduction Contrasts Bandwidth Free echo spacing Echo spacing	Off 1 2004 Hz/Px On 0.58 ms
EPI factor RF pulse type Gradient mode	64 Normal Fast
Slew Rate Factor Grad Strength Factor Z Shim Value (mT/m) Use old zshim method Zshim only the first echo Reverse the PE blips for RGPM	1.00 x 1.00 x 0.000 Off Off Off

\\USER\Brain\KCL171467_STRATIFY\v1\ep2d_bold_moco_p2_349_STOP_SIGNAL

	TA: 12:54	PAT: 2	Voxel size: 3.4×3.4×2.4 mm	Rel. SNR: 1.00	USER: MEep2d_bold	
Propertie	s		ļ	Special sat.	None	
Prio R	econ measurement	Off	Sy	/stem		
After n	neasurement	On		Body HEP	Off On	

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	On
Start measurements	single

40

42 %

further preparation	
Wait for user to start	On
Start measurements	single
Routine	

Slice group 1	_
Slices	
Dist. factor	

Position L1.8 P7.8 H32.5 Orientation T > C-21.7 > S2.0Phase enc. dir. P >> A Rotation 180.00 deg Phase oversampling 0 % FoV read 218 mm FoV phase 100.0 % 2.4 mm

Slice thickness TR ΤE **Averages**

Filter Coil elements HEA On

Positioning mode

Table position

Shim mode

Table position 32 mm **MSMA** S-C-T Sagittal R >> L Coronal A >> P Transversal F >> H

FIX

Standard

L1.8 P7.8 H32.5

Н

Coil Combine Mode Sum of Squares AutoAlign Auto Coil Select Default

Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Off ? Ref. amplitude 1H 0.000 V Adjustment Tolerance Auto

Adjust volume Position Orientation

T > C-21.7 > S2.0Rotation 180.00 deg R >> L 218 mm 218 mm A >> P F >> H 136 mm

Physio

1st Signal/Mode None

HEA;HEP

Prescan Normalize

2200 ms

30 ms

Contrast	
MTC Flip angle	Off 75 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	349
Delay in TR	0 ms
Multiple series	Off
Resolution	

•			
Resolution			
Base resolution Phase resolution Phase partial Fourier Interpolation	64 100 % Off Off		
PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	GRAPPA 2 24 Auto (Triple) Separate		
Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off Off On Off Off Off		

Geometry Multi-slice mode Interleaved Series Interleaved

BOLD

GLM Statistics Off Off Dynamic t-maps Starting ignore meas 0 Ignore after transition 0 Model transition states On Temp. highpass filter On 4.00 Threshold Paradigm size 20 Meas[1] Baseline Meas[2] Baseline Meas[3] Baseline Meas[4] Baseline Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]

Baseline Baseline Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17]

Meas[19] Meas[20] Motion correction Interpolation

Meas[18]

Baseline Baseline Baseline Baseline Active Active Active Active Active Active Active Active Active Active

On

3D-K-space

	Spatial filter	Off
5	Sequence	
	Introduction Contrasts	Off 1
	Bandwidth Free echo spacing Echo spacing	2004 Hz/Px On 0.58 ms
-	EPI factor RF pulse type Gradient mode	64 Normal Fast
	Slew Rate Factor Grad Strength Factor Z Shim Value (mT/m) Use old zshim method Zshim only the first echo Reverse the PE blips for RGPM	1.00 x 1.00 x 0.000 Off Off

\\USER\Brain\KCL171467_STRATIFY\v1\B0_field_map_4mm_iso

Rel. SNR: 1.00

SIEMENS: gre_field_mapping

Voxel size: 4.0×4.0×4.0 mm

TA: 0:43

	Special sat.	None
Off	1 .	
Oli		Off
		On
On		On
		OII
	Positioning mode	FIX
		Н
		32 mm
0.11		S - C - T
Off		R >> L
		A >> P
.		F >> H
On		Off
_		Sum of Squares
5.1.g.6		
	Auto Coil Select	Default
	Shim mode	Standard
		Off
		Off
		Off
		0.000 V
		Auto
		- 13.0
		L1.8 P7.8 H32.5
		T > C-21.7 > S2.0
		0.00 deg
		256 mm
	A >> P	224 mm
	F >> H	144 mm
	0	
		0"
=		Off
	I Dimension	2D
		O#
HEA;HEP	Asymmetric echo	Off
HEA;HEP	Asymmetric echo Contrasts	2
HEA;HEP	Asymmetric echo Contrasts Bandwidth	2 260 Hz/Px
HEA;HEP Off 40 deg	Asymmetric echo Contrasts	2
HEA;HEP	Asymmetric echo Contrasts Bandwidth	2 260 Hz/Px
HEA;HEP Off 40 deg None	Asymmetric echo Contrasts Bandwidth Flow comp.	2 260 Hz/Px Yes
HEA;HEP Off 40 deg None Short term	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type	2 260 Hz/Px Yes Normal
Off 40 deg None Short term Magn./Phase	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 %	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 %	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off Off Off	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off Off Off Off Off Off Off Off Off O	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Off Auto (CP) Off Off Off Off Off Off Off Off Off O	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Auto (CP) Off Off Off Off Off Off Off Off Off O	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Off Off Off Off Off Off Off Of	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Off Off Off Off Off Off Off Of	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
Off 40 deg None Short term Magn./Phase 1 Off 64 100 % Off Off Off Off Off Off Off Off Off Of	Asymmetric echo Contrasts Bandwidth Flow comp. RF pulse type Gradient mode	2 260 Hz/Px Yes Normal Normal
	Off On Off On Off On Off Off Off Off On On single 36 0 % L1.8 P7.8 H32.5 T > C-21.7 > S2.0 A >> P 0.00 deg 0 % 256 mm 87.5 % 4.0 mm 378 ms 4.63 ms 7.09 ms 1 Prescan Normalize	Off On Off On Off On Off On Off Off Off

\\USER\Brain\KCL171467_STRATIFY\v1\ep2d_diff_1300_36dir

TA: 10:00 PAT: 2 Voxel size: 2.4x2.4x2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Series	Interleaved
Prio Recon	Off	Special sat.	None
Before measurement			
After measurement		System	
Load to viewer	On	Body	Off
Inline movie	Off	HEP	On
Auto store images	On Off	HEA	On
Load to stamp segments	Off Off	Positioning mode	FIX
Load images to graphic segments	Oii	Table position	H
Auto open inline display	Off	Table position	0 mm
Start measurement without	On	MSMA	S - C - T
further preparation	3 11	Sagittal	R >> L
Wait for user to start	On	Coronal	A >> P
Start measurements	single	Transversal	F >> H
ı	3 -	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	 D ()
Slice group 1 Slices	60	Auto Coil Select	Default
Dist. factor	0 %	Shim mode	Standard
Position	Isocenter	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
FoV read	307 mm	Adjust volume	
FoV phase	100.0 %	Position	Isocenter
Slice thickness	2.4 mm	Orientation	Transversal
TR	15000 ms	Rotation	0.00 deg
TE	104 ms	R >> L	307 mm
Averages	1	A >> P F >> H	307 mm
Concatenations	1	г>>п	144 mm
Filter	Raw filter, Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast		Resp. control	Off
MTC	Off		
Magn. preparation	None	Diff Diffusion mode	Fran
Fat suppr.	Fat sat.	Diff. weightings	Free 2
Averaging mode	Long term	b-value 1	0 s/mm²
Reconstruction	Magnitude	b-value 7	1300 s/mm²
Delay in TR	0 ms	Diff. weighted images	On
Multiple series	Off	Trace weighted images	On
Resolution		Average ADC maps	On
Base resolution	128	Individual ADC maps	On
Phase resolution	100 %	FA maps	On
Phase partial Fourier	Off	Mosaic	On
Interpolation	Off	Tensor	On
	CDADDA	Noise level	40
PAT mode	GRAPPA	Diff. directions	36
Accel. factor PE Ref. lines PE	2 24	Sequence	
Matrix Coil Mode	Auto (Triple)	Introduction	Off
Reference scan mode	Separate	Bandwidth	2056 Hz/Px
······		Free echo spacing	On
Distortion Corr.	Off	Echo spacing	0.69 ms
Prescan Normalize	On	EPI factor	120
Raw filter	On	RF pulse type	128 Normal
	Madium		
Intensity	Medium	Gradient mode	Fast*
Slope	48	Gradient mode	Fast*
Slope Elliptical filter	48 Off	Gradient mode	Fast*
Slope	48	Gradient mode	Fast*
Slope Elliptical filter	48 Off	Gradient mode	Fast*

\\USER\Brain\KCL171467_STRATIFY\v1\ep2d_bold_moco_p2_164_REST

TA: 6:07 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 USER: MEep2d_bold

Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement	_	HEP	On
Load to viewer	On	HEA	On
Inline movie	Off		
Auto store images	On	Positioning mode	FIX
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	32 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	On	Coil Combine Mode	Sum of Squares
Start measurements	single	AutoAlign	 D (!!
Routine		Auto Coil Select	Default
Slice group 1 Slices	40	Shim mode	Standard
Dist. factor	40 42 %	Adjust with body coil	Off
Position	42 % L1.8 P7.8 H32.5	Confirm freq. adjustment	Off Off
Orientation	T > C-21.7 > S2.0	Assume Silicone	Off
Phase enc. dir.	P >> A	? Ref. amplitude 1H	0.000 V
Rotation	180.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	14 0 D7 0 1100 5
FoV read	218 mm	Position	L1.8 P7.8 H32.5
FoV phase	100.0 %	Orientation	T > C-21.7 > S2.0
Slice thickness	2.4 mm	Rotation	180.00 deg
TR	2200 ms	R >> L	218 mm
TE	30 ms	A >> P	218 mm
Averages	1	F >> H	136 mm
Filter	Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast	,,	BOLD	
MTC	Off	GLM Statistics	Off
Flip angle	75 deg	Dynamic t-maps	Off
Fat suppr.	Fat sat.	Starting ignore meas	0
		Ignore after transition	0
Averaging mode	Long term	Model transition states	On
Reconstruction	Magnitude	Temp. highpass filter	On
Measurements	164	Threshold	4.00
Delay in TR	0 ms	Paradigm size	20
Multiple series	Off	Meas[1]	Baseline
Resolution		Meas[2]	Baseline
Base resolution	64	Meas[3]	Baseline
Phase resolution	100 %	Meas[4]	Baseline
Phase partial Fourier	Off	Meas[5]	Baseline
Interpolation	Off	Meas[6]	Baseline
DAT mode	GRAPPA	Meas[7]	Baseline
PAT mode	_	Meas[8]	Baseline
Accel. factor PE	2	Meas[9] Meas[10]	Baseline Baseline
Ref. lines PE		I MEASITOT	Daseille
Matrix Cail Mada	24 Auto (Triple)		
Matrix Coil Mode	Auto (Triple)	Meas[11]	Active
Matrix Coil Mode Reference scan mode		Meas[11] Meas[12]	Active Active
	Auto (Triple)	Meas[11] Meas[12] Meas[13]	Active Active Active
Reference scan mode	Auto (Triple) Separate	Meas[11] Meas[12] Meas[13] Meas[14]	Active Active Active Active
Reference scan mode Distortion Corr.	Auto (Triple) Separate Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	Active Active Active Active Active Active
Reference scan mode Distortion Corr. Unfiltered images	Auto (Triple) Separate Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active Active Active Active Active Active
Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize	Auto (Triple) Separate Off Off On	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17]	Active Active Active Active Active Active Active Active Active
Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter	Auto (Triple) Separate Off Off On Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18]	Active
Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Auto (Triple) Separate Off Off On Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19]	Active
Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming Geometry	Auto (Triple) Separate Off Off On Off Off Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19] Meas[20]	Active
Reference scan mode Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Auto (Triple) Separate Off Off On Off Off	Meas[11] Meas[12] Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19]	Active

	Spatial filter	Off
S	Sequence	
	Introduction Contrasts Bandwidth Free echo spacing Echo spacing	Off 1 2004 Hz/Px On 0.58 ms
	EPI factor RF pulse type Gradient mode	64 Normal Fast
	Slew Rate Factor Grad Strength Factor Z Shim Value (mT/m) Use old zshim method Zshim only the first echo Reverse the PE blips for RGPM	1.00 x 1.00 x 0.000 Off Off

 $\verb|\USER\Brain\KCL171467_STRATIFY\v1\localizer| \\$

SIEMENS: gre

PAT: Off Voxel size: 1.1×1.0×7.0 mm Rel. SNR: 1.00

TA: 0:14

17.0.14	7 6 10.01.0120. 1.17.1.0	7.7.0 11111 1.00. 0111. 1.00	
Properties		Phase partial Fourier	Off
Prio Recon	Off	— Interpolation	On
Before measurement	Oii	PAT mode	None
After measurement		Matrix Coil Mode	Auto (CP)
Load to viewer	On	Matrix Coll Mode	Auto (OF)
Inline movie	Off	Image Filter	Off
	On	Distortion Corr.	Off
Auto store images	Off	Prescan Normalize	Off
Load to stamp segments	Off	Normalize	On
Load images to graphic	OII	B1 filter	Off
segments	0"	Raw filter	Off
Auto open inline display	Off	Elliptical filter	On
Start measurement without	On	Mode	Inplane
further preparation	0	ı	
Wait for user to start	On	Geometry	
Start measurements	single	Multi-slice mode	Sequential
Routine		Series	Interleaved
Slice group 1		Saturation mode	Standard
Slices	1	Special sat.	None
Dist. factor	20 %		
Position	Isocenter		O#
Orientation	Sagittal	Tim CT mode	Off
Phase enc. dir.	A >> P	System	
Rotation	0.02 deg	Body	Off
Slice group 2	0.0 <u>2</u> deg	HEP	On
Slices	1	HEA	On
Dist. factor	20 %		
Position	L1.2 P21.2 H3.7	Positioning mode	FIX
Orientation	Transversal	Table position	Н
	A >> P	Table position	0 mm
Phase enc. dir.		MSMA	S - C - T
Rotation	-0.07 deg	Sagittal	R >> L
Slice group 3	4	Coronal	A >> P
Slices	1	Transversal	F >> H
Dist. factor	20 %	Save uncombined	Off
Position	L1.5 P0.6 H5.9	Coil Combine Mode	Adaptive Combine
Orientation	Coronal	AutoAlign	'
Phase enc. dir.	R >> L	Auto Coil Select	Off
Rotation	0.01 deg		
Phase oversampling	0 %	Shim mode	Tune up
FoV read	250 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	7.0 mm	Assume Silicone	Off
TR	8.6 ms	? Ref. amplitude 1H	0.000 V
TE	4.00 ms	Adjustment Tolerance	Auto
Averages	2	Adjust volume	
Concatenations	3	Position	Isocenter
Filter	Normalize, Elliptical filter	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
Contrast		R >> L	350 mm
TD	0 ms	— A >> P	263 mm
MTC	Off	F >> H	350 mm
	None	Physic	
Magn. preparation		Physio	None
Flip angle	20 deg	1st Signal/Mode	None
Fat suppr	None	Segments	1
Water suppr.	None	Dark blood	Off
SWI	Off		
Averaging mode	Short term	Resp. control	Off
Reconstruction	Magnitude	Inline	
Measurements	1	Subtract	Off
Multiple series	Each measurement	Liver registration	Off
•		Std-Dev-Sag	Off
Resolution		Std-Dev-Sag Std-Dev-Cor	Off
Base resolution	256	Std-Dev-Col	Off
Phase resolution	91 %	Ju-Dev-Ha	Oil

Std-Dev-Time	Off	
MIP-Sag	Off	
MIP-Cor	Off	
MIP-Tra	Off	
MIP-Time	Off	
Save original images	On	
Wash - In	Off	
Wash - In Wash - Out	Off Off	
	- ··	
Wash - Out	Off	
Wash - Out TTP	Off Off	

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\Brain\KCL171467_STRATIFY\v1\NODDI_200dir_b2000_MB3

TA: 12:18 PAT: Off Voxel size: 2.0x2.0x2.0 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_diff

Properties		Series	Interleaved
Prio Recon	Off	Special sat.	None
Before measurement		System	
After measurement		Body	Off
Load to viewer	On O"	HEP	On
Inline movie	Off	HEA	On
Auto store images	On Off		
Load to stamp segments	Off	Positioning mode	FIX
Load images to graphic	Off	Table position	Н
segments	0"	Table position	0 mm
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	0	Coronal	A >> P
Wait for user to start	On	Transversal	F >> H
Start measurements	single	Coil Combine Mode	Sum of Squares
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	66	Shim mode	Standard
Dist. factor	0 %	Adjust with body coil	Off
Position	L7.8 P4.4 H47.1	Confirm freq. adjustment	Off
Orientation	Transversal	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	, (310
FoV read	256 mm	Position	L7.8 P4.4 H47.1
FoV phase	100.0 %	Orientation	Transversal
Slice thickness	2.00 mm	Rotation	0.00 deg
TR	3618 ms	R >> L	256 mm
TE	102.2 ms	A >> P	256 mm
Multi-band accel. factor	3	F >> H	132 mm
Filter	Raw filter	'	102 111111
Coil elements	HEA;HEP	Physio	
Contrast		1st Signal/Mode	None
MTC	Off	─ Diff	
Magn. preparation	None	Diffusion mode	Free
Flip angle	80 deg	Diff. weightings	1
Refocus flip angle	168 deg	b-value	2000 s/mm ²
Fat suppr.	None	Diff. weighted images	On
Grad. rev. fat suppr.	Enabled	Trace weighted images	On
		- Average ADC maps	On
Averaging mode	Long term	Individual ADC maps	On
Reconstruction	Magnitude	FA maps	On
Measurements	1	Mosaic	On
Delay in TR	0 ms	Tensor	On
Multiple series	Off	Noise level	40
Resolution		Diff. directions	200
Base resolution	128	_ 'Sequence	
Phase resolution	100 %	Sequence Introduction	Off
Phase partial Fourier	6/8		1628 Hz/Px
Interpolation	Off	Bandwidth Free echo spacing	1628 HZ/PX On
	····		0.72 ms
PAT mode	None	Echo spacing	U. / Z IIIS
Matrix Coil Mode	Auto (CP)	EPI factor	128
Distortion Corr	Off	Gradient mode	Fast
Distortion Corr.	Off	RF spoiling	Off
Prescan Normalize	Off		
Raw filter	On Work	Excite pulse duration	3200 us
Intensity	Weak	Refocus pulse duration	7040 us
Slope	25	Diffusion Scheme	Monopolar
Elliptical filter	Off	Single-band images	Off
Hamming	Off	MB LeakBlock kernel	On
		I MD dead keesed	Off
Geometry		MB dual kernelMB RF phase scramble	Off

Time-shifted MB RF	Off
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off