Medical Imaging





Study label

Sequence	Completed Yes No	FWHM	T2*	Technical Reasons for Failure
HASTE Loc				
Tran 2D T2				
Field Map				
Resting State				
MSIT fMRI				
3D MPRAGE				
BRI 60 DTI				
MGH 60 DTI				
Export CD				

Comments:

MR Tech	Date :

Unit: MRI	Page 1	Authorised Person: Chief MR Tech
Authorised:13/09/2009	Next Review: 20/02/2010	Document No: MR-ADS_02

B15v1.1

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MR046

Research Projects ORYGEN

ADS_32 Matrix

HASTE_Loc t2_tse_tra_320_p2_4mm gre_field_mapping

gre_field_mapping Resting State_iPAT MSIT_iPAT

T1_mpr_ns_sag_0.9mm diff60_b3000_2.3_iPat2 DTI_MGH_60Dir 32 Channel

MCRI Bython Reprice

fruci trigger.

Source ORY OF Dr. YUCEM.

ADS_2403 MR046

18/11/1992

R423663



of sloped left handed No MSIT TARK.

1 OP 06/09/2008 10:17 MRRES ADS_2403,MR046 Sex: F RCH

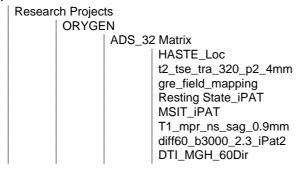
Ref Dr: YUCEM Bill Code: 3TOY Bill Rad: DITCMC

R423663 08058293 MRRES DOB: 18/11/1992 Age: 15 y



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B 10 V 1 1		

\\USER



\\USER\Research Projects\ORYGEN\ADS_32 Matrix\HASTE_Loc

Rel. SNR: 1.00

SIEMENS: haste

Voxel size: 0.9×0.7×4.0 mm

B15v1.1

TA: 0:24

PAT: 2

MR046

TA. 0.24 F	41. 2 VOXEI SIZE. 0.9X0.7X4.	O IIIII Rei. SINN. 1.00 Si	IEMENO. Haste
Properties		Resolution	
Prio Recon	Off	Base resolution	320
Before measurement		Phase resolution	80 %
After measurement		Phase partial Fourier	5/8
Load to viewer	On	Interpolation	Off
Inline movie	Off		CDADDA
Auto store images	On	PAT mode	GRAPPA
Load to stamp segments	Off	Accel. factor PE	2
Load images to graphic	Off	Ref. lines PE	24
segments		Matrix Coil Mode	Auto (Triple)
Auto open inline display	Off	Reference scan mode	Integrated
AutoAlign Spine	Off	Image Filter	Off
Start measurement without	On	Distortion Corr.	Off
further preparation		Unfiltered images	Off
Wait for user to start	Off	Prescan Normalize	On
Start measurements	single	Normalize	Off
1	Ü	Raw filter	Off
Routine		- Elliptical filter	On
Slice group 1		Mode	Inplane
Slices	3	ı	pica.io
Dist. factor	20 %	Geometry	
Position	Isocenter	Multi-slice mode	Single shot
Orientation	Transversal	Series	Interleaved
Phase enc. dir.	R >> L		None
Rotation	90.00 deg	Special sat.	none
Slice group 2	_		
Slices	5	Set-n-Go Protocol	Off
Dist. factor	20 %	Table position	Н
Position	L0.0 P0.0 H9.6	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	Body	Off
Slice group 3		HEP	On
Slices	3	HEA	On
Dist. factor	20 %	SP4	Off
Position	L4.8 P0.0 H9.6	SP2	Off
Orientation	Coronal	SP8	Off
Phase enc. dir.	R >> L	SP6	Off
Rotation	0.00 deg	SP3	Off
Phase oversampling	0 %	SP1	Off
FoV read	220 mm	SP7	Off
FoV phase	100.0 %	SP5	Off
Slice thickness	4.0 mm	JFU	OII
TR	2000 ms	Positioning mode	REF
TE	89 ms	MSMA	S - C - T
Averages	1	Sagittal	R >> L
Concatenations	3	Coronal	A >> P
Filter	Prescan Normalize, Elliptical	Transversal	F >> H
	filter	Save uncombined	Off
Coil elements	HEA;HEP	Coil Combine Mode	Adaptive Combine
ı	,	Auto Coil Select	Default
Contrast	0.0		
TD	0.0 ms	Shim mode	Tune up
MTC	Off	Adjust with body coil	Off
Magn. preparation	None	Confirm freq. adjustment	Off
Flip angle	150 deg	Assume Silicone	Off
Fat suppr.	None	? Ref. amplitude 1H	0.000 V
Fat sat. mode	Strong	Adjustment Tolerance	Auto
Water suppr.	None	Adjust volume	
Restore magn.	Off	Position	Isocenter
Averaging made	Long torm	Orientation	Transversal
Averaging mode	Long term	Rotation	0.00 deg
Reconstruction	Magnitude	R >> L	350 mm
Measurements Multiple period	I Each magairement	A >> P	263 mm
Multiple series	Each measurement	F >> H	350 mm
		1/1	

MR046

B₁5y₁1.1

	1st Signal/Mode	None	
	Dark blood	Off	
Resp. control		Off	
	Inline		
	Subtract	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	
	•		

Introduction	On
Dimension	2D
Contrasts	1
Bandwidth	401 Hz/Px
Flow comp.	No
Allowed delay	30 s
Echo spacing	5.58 ms
Turbo factor	256
RF pulse type	Fast
Gradient mode	Fast
I Stadiotic filodo	1 401

Properties	B15v1.1	SER\Research P	rojects\ORYGEN\	ADS_32 Matrix\t2_tse_tr	ra_320_p2_4mm	MR046
Prescan Normalize	TA: 1	1:02 PAT: 3	Voxel size: 0.7×0.7×	44.0 mm Rel. SNR: 1.00	SIEMENS: tse	
Price Recon				Unfiltered images	Off	
Price Recon Price Reconstruction						
Before measurement						
Alter measurement Load to viewer On Inline movie Off Mode Inline movie Off Auto store images On Geometry	Before measureme	nt:			_	
Load to viewer Orf	After measurement	i				
Inline movie	Load to viewer	On				
Load images to graphic segments	Inline movie	Off		Mode	inplane	
Load images to graphic segments Auto open inline display	Auto store images	On		Geometry		
Segments	Load to stamp segr	ments Off		Multi-slice mode	Interleaved	
Auto Open inline display	Load images to gra	aphic Off		Series	Interleaved	
Auto Open inline display	segments	•				
AutoAlign Spine Off Start measurement without further preparation Wait for user to start Off Table position H Table position Inline Composing Off Table position Off		splay Off		Special sat.	None	
Start measurement without further preparation Wait for user to start Off Sath-Go Protocol Table position H Table position Off Off Table position Off Off Table position Off Off Table position Off Table position Off Off Table position Off Table position Off Off Table position Off Table position Off Table position Off Table position Off Off Table position Off Off Table position Off Off Table position Off						
further preparation Wait for user to start Off Start measurements Single Single System		without On			-	
Wait for user to start Off Table position 0 mm Inline Composing Off					Н	
Start measurements		rt Off		Table position	0 mm	
Size group 1	_			Inline Composing	Off	
Slice group 1 Slices 28 HEP	ı	.o omgio				
Silices 28					Off	
Dist. factor 20 % Position R1.7 P2.4 H12.5 SP4 Off SP4 Off SP4 Off SP4 Off SP4 Off SP5 Off SP8 Off SP9 Off S		6.5				
Position						
None					-	
Phase enc. dir. R >> L SP8 Off				_		
Rotation	Orientation	T > C-9.2	2 > S-1.8			
Phase oversampling 37 % SP3 Off	Phase enc. dir.	R >> L				
FoV read FoV phase Recomposition FoV phase FoV phase FoV phase FoV phase FoV phase FoV phase resolution FoV phase resolutio	Rotation	90.00 de	g			
FoV read	Phase oversampling	ıg 37 %	-			
Slice thickness 4.0 mm TR TR 5000 ms TR TE 102 ms Averages 1 Concatenations 1 Filter Prescan Normalize, Elliptical filter Coil elements HEA;HEP Coil elements HEA;HEP Contrast MTC Magn. preparation None Filt sat. mode Strong Water suppr. Restore magn. Averaging mode Averaging mode REF MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal Save uncombined Coil Combine Mode Adaptive Combine Auto Coil Select Default Shim mode Adaptive Combine Confirm freq. adjustment Assume Silcone Adjust with body coil Confirm freq. adjustment Assume Silcone Adjust with body coil Off Confirm freq. adjustment Assume Silcone Adjust with body coil Off Ref. amplitude 1H Assume Silcone Adjust volume Position Positioning mode Ad >> P Transversal Save uncombined Coil Combine Mode Adaptive Combine Confirm freq. adjustment Assume Silcone Off Ref. amplitude 1H Adjustment Tolerance Adjust volume Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Resolution Phase resolution Phase resolution Phase partial Fourier Trajectory Interpolation Off Reso. control Off Reso. control Off					_	
Slice thickness TR 5000 ms TR 5000 ms TE 102 ms Averages 1 Concatenations 1 Filter Prescan Normalize, Elliptical filter Coil elements HEA;HEP Coil elements HEA;HEP Contrast MTC Off Magn. preparation Pip angle 140 deg Pats stat. mode Water suppr. Restore magn. Averaging mode Averaging mode Magnitude Measurements 1 Multiple series Each measurement Resolution Phase resolution Phase partial Fourier Trajectory Interpolation Off Positioning mode REF MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Save uncombined Off Coil Combine Mode Adaptive Combine Auto Coil Select Default Shim mode Standard Adjust with body coil Off Confirm freq. adjustment Off Confirm freq. adjustment Off Assume Silicone Off Assume Silicone Off Adjust volume Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation 90.00 deg None Resolution T > C-9.2 > S-1.8 Rotation 90.00 deg None Physio Physio Positioning mode REF MSMA S - C - T MSMA Set in the MSMA S - C - T MSMA Sitted in the MSMA S - C - T MSMA Sitted in the MSMA S - C - T MSMA Sitted in the MSMA S - C - T MSMA Sitted in the MSMA Set in the MSM	FoV phase	85.0 %			Off	
TR TE 102 ms Averages 1 1				SP5	Off	
TE Averages 1 Concatenations 1 Filter Prescan Normalize, Elliptical filter Coil elements HEA;HEP Contrast MTC Off Magn. preparation None Flip angle 140 deg Fat suppr. None Water suppr. Restore magn. Off Averaging mode Long term Resconstruction Magnitude Measurements 1 Multiple series Each measurement Resolution Base resolution Phase partial Fourier Trajectory Interpolation A verages 1 Averages 1 A yerages 2 A yerages 1 A yerages 2 A yerages 3 A yerages 4 A yerages 4 Adjust with body coil Coff Adjust with body coil A yerages Adjust with body coil A yerages Adjust with body coil Coff Adjust with body coil Coff Adjust with body coil Coff Adjust with body coil A yeragins free Adjust with body coil Coff Confirm freq adjustment Adjustment Tolerance Adjust with body coil Coff Coff Assume Alages Adjust with body coil Coff		-		Desitioning and		
Averages						
Concatenations Filter Prescan Normalize, Elliptical filter Coil elements Contrast MTC Mggn. preparation Filip angle Fat suppr. Fat sat. mode Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Magnitude Measurements Multiple series Magnitude Phase resolution Phase partial Fourier Trajectory Interpolation Filter Prescan Normalize, Elliptical filter Coronal Transversal Save uncombined Coil Combine Mode Adaptive Combine Nore Coil Combine Mode Adaptive Combine Standard Assume Silicone Off Confirm freq. adjustment Off Confirm freq. adjustment Off Adjust with body coil Confirm freq. adjustment Off Assume Silicone Pfef. amplitude 1H Adjustment Tolerance Adjust volume Position Position Prescan Normalize, Elliptical Transversal Save uncombined Coil Combine Mode Adaptive Combine Averaging mode Adjust with body coil Confirm freq. adjustment Off Assume Silicone Pfef. amplitude 1H Adjustment Tolerance Adjust volume Position Prosition Prosition Prosition R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Physio Physio Physio Ist Signal/Mode None Dark blood Off Resp. control Off		102 1113		_		
Filter Prescan Normalize, Elliptical filter Coil elements HEA;HEP Contrast MTC Magn. preparation Filip angle Fat suppr. Fat sat. mode Water suppr. Restore magn. Averaging mode Reconstruction Measurements Measurements Measurements Pase resolution Phase partial Fourier Trajectory Interpolation Poff Prescan Normalize, Elliptical filter filiter Transversal Save uncombined Coil Combine Mode Adaptive Combine Coil Combine Mode Adaptive Combine Adout Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Adjustment Tolerance Adjust volume Position Prosition Phase resolution Physio Physio Physio Resp. control Off Coil Combine Mode Adaptive Combine Coil Combine Mode Adaptive Combine Adoptive Combine Adoptive Combine Adoptive Combine Adoptive Combine Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Adjustment Tolerance Adjust volume Position Resp. control Adjust with body coil Confirm freq. adjustment Adjust volume Position Resp. control Off Confirm freq. adjustment Adjust volume Resp. control Off Confirm freq. adjust v		1				
filter Coil elements Contrast MTC Magn. preparation Flip angle Fat suppr. Fat sat. mode Water suppr. Restore magn. Averaging mode Reconstruction Measurements Magnitude Messurements Magnitude Ma		Dragon	Normaliza Elliptical			
Coil elements HEA;HEP Contrast MTC Magn. preparation Flip angle Fat suppr. None Restore magn. Averaging mode Reconstruction Magnitude Measurements Magnitude Magnitude Magnitude Magnitude Magnitude Magnitude Measurements Magnitude Measurements Magnitude Magnitude Magnitude Magnitude Magnitude Magnitude Magnitude Magnitude Measurements Magnitude Measurements Magnitude Resolution Base resolution Phase partial Fourier Trajectory Interpolation Coff Shim mode Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Pff Confirm freq. adjustment Adjust with body coil Off Confirm freq. adjustment Adjust with body coil Adjust with body coil Off Confirm freq. adjustment Off Confirm freq. adjustment Adjust with body coil Off Confirm freq. adjustment Off Assume Silicone Position Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation R1.7 P2.4 H12.5 Difficulty R1.7 P2.4 H12.5 Difficulty R1.7 P2.4 H12.5 Difficulty R1.7 P2.4 H	Filler		Normalize, Elliptical	Transversal		
Contrast MTC Magn. preparation Flip angle Fat suppr. Fat sat. mode Water suppr. Restore magn. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution Phase partial Fourier Trajectory Interpolation MTC Off Auto Coil Select Auto Coil Select Default Shim mode Adjust with body coil Confirm freq. adjustment Off Assume Silicone Off Assume Silicone Off Pref. amplitude 1H Assume Silicone Off Assume Silicone Off Assume Silicone Off Adjust volume Position Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position Off Resp. control Off Dark blood Off Resp. control Off			_	Save uncombined	Off	
MTCOffShim modeStandardMagn. preparationNoneAdjust with body coilOffFlip angle140 degConfirm freq. adjustmentOffFat suppr.NoneAssume SiliconeOffWater suppr.NoneAdjustment ToleranceAutoRestore magn.OffAdjust volumeAveraging modeLong termPositionR1.7 P2.4 H12.5ReconstructionMagnitudePositionR1.7 P2.4 H12.5Measurements1Rotation90.00 degMultiple seriesEach measurementA >> P220 mmResolutionEach measurementA >> P220 mmPhase resolution320Physio187 mmPhase partial FourierOff1st Signal/ModeNoneTrajectoryCartesianDark bloodOffInterpolationOffResp. controlOff	Coil elements	HEA;HEI	,	Coil Combine Mode	Adaptive Combine	
Magn. preparationNoneAdjust with body coilOffFlip angle140 degConfirm freq. adjustmentOffFat suppr.NoneAssume SiliconeOffFat sat. modeStrong? Ref. amplitude 1H0.000 VWater suppr.NoneAdjust wolumeAdjust volumeAveraging modeLong termPositionR1.7 P2.4 H12.5ReconstructionMagnitudeOrientationT > C-9.2 > S-1.8Measurements1Rotation90.00 degMultiple seriesEach measurementA >> P220 mmResolution100 %PhysioPhase resolution100 %PhysioPhase partial FourierOff1st Signal/ModeNoneTrajectoryCartesianDark bloodOffInterpolationOffResp. controlOff	Contrast			Auto Coil Select	Default	
Magn. preparation Flip angleNoneAdjust with body coil Confirm freq. adjustmentOffFat suppr.NoneAssume SiliconeOffFat sat. modeStrong? Ref. amplitude 1H0.000 VWater suppr.NoneAdjustment ToleranceAutoRestore magn.OffAdjust volumeAveraging modeLong termPositionR1.7 P2.4 H12.5ReconstructionMagnitudeOrientationT > C-9.2 > S-1.8Measurements1Rotation90.00 degMultiple seriesEach measurementA >> P220 mmResolution320PhysioPhase resolution100 %PhysioPhase partial FourierOff1st Signal/ModeNoneTrajectoryCartesianDark bloodOffInterpolationOffResp. controlOff	MTC	Off		Shim mode	Standard	
Flip angle 140 deg Fat suppr. None Strong Water suppr. None Restore magn. Off Averaging mode Reconstruction Measurements Multiple series Resolution Resolution Base resolution Phase partial Fourier Trajectory Interpolation Fit of degree adjustment Confirm freq. adjustment Off Assume Silicone Off Adjustment Tolerance Adjust volume Position Resolution Rotation Orientation T > C-9.2 > S-1.8 Rotation Physio Physio Physio Physio Physio Physio Dark blood Off Resp. control Off Resp. control Off	Magn. preparation	None				
Fat suppr. None Strong Water suppr. None Restore magn. Off Averaging mode Reconstruction Multiple series Resolution Base resolution Phase partial Fourier Trajectory Interpolation Fat suppr. None Strong Strong Assume Silicone Off Ref. amplitude 1H 0.000 V Adjustment Tolerance Adjust volume Position R1.7 P2.4 H12.5 Orientation Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation Position R1.7 P2.4 H12.5 Orientation For Position R1.7 P2.4 H12.5 Orientation For Position R1.7 P2.4 H12.5 Orientation For Position For Position For Position Physio Physio Physio Dark blood Off Resp. control Off Off Off Off Off Off Off Off Off Of		140 dea			_	
Fat sat. mode Strong Water suppr. None Restore magn. Off Adjustment Tolerance Adjust volume Averaging mode Long term Position T > C-9.2 > S-1.8 Rotation 90.00 deg Maltiple series Each measurement F > H 134 mm Resolution Saturd Saturd Strong Phase resolution 100 % Phase partial Fourier Trajectory Interpolation Off Saturd		•				
Water suppr. Restore magn. Off Averaging mode Reconstruction Magnitude Mag						
Restore magn. Off Averaging mode Reconstruction Magnitude Measurements Multiple series Resolution Base resolution Phase partial Fourier Trajectory Interpolation Off Adjust volume Position R1.7 P2.4 H12.5 Orientation T > C-9.2 > S-1.8 Rotation 90.00 deg A >> P 220 mm R >> L 187 mm F >> H 134 mm Physio Physio Physio Dark blood Off Resp. control Off Resp. control Off		•				
Averaging mode Long term Position R1.7 P2.4 H12.5 Reconstruction Magnitude Orientation T > C-9.2 > S-1.8 Measurements 1 Rotation 90.00 deg Multiple series Each measurement A >> P 220 mm Resolution F >> H 134 mm Base resolution 100 % Physio Phase partial Fourier Off 1st Signal/Mode None Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off					Auto	
Reconstruction Magnitude Orientation T > C-9.2 > S-1.8 Measurements 1 Rotation 90.00 deg Multiple series Each measurement A >> P 220 mm Resolution F >> H 187 mm Resolution 520 Phase resolution 100 % Physio Phase partial Fourier Off Trajectory Cartesian Interpolation Off Resp. control Off Resp. control Off					5 55	
Measurements 1 Rotation 90.00 deg Multiple series Each measurement Resolution F >> H 187 mm Resolution F >> H 134 mm Base resolution 100 % Physio Phase partial Fourier Off Trajectory Cartesian Interpolation Off Resp. control Off Resp. control Off	Averaging mode	Long terr	n			
Measurements 1 Rotation 90.00 deg Multiple series Each measurement A >> P 220 mm Resolution R >> L 187 mm F >> H 134 mm Phase resolution 100 % Physio Phase partial Fourier Off 1st Signal/Mode None Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off	Reconstruction	Magnitud	le			
Resolution Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation Off R >> L 187 mm F >> H 134 mm Physio Physio Physio Ist Signal/Mode None Dark blood Off Resp. control Off	Measurements	1			•	
Resolution Resolution Base resolution Phase resolution Phase partial Fourier Trajectory Interpolation Off R >> L 187 mm F >> H 134 mm Physio Physio Ist Signal/Mode None Dark blood Off Resp. control Off	Multiple series	Each me	asurement	A >> P		
Base resolution 320 Phase resolution 100 % Phase partial Fourier Off 1st Signal/Mode None Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off				R >> L	187 mm	
Phase resolution 100 % Physio Phase partial Fourier Off 1st Signal/Mode None Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off				F >> H	134 mm	
Phase partial Fourier Off 1st Signal/Mode None Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off				Physio		
Trajectory Cartesian Dark blood Off Interpolation Off Resp. control Off					None	
Interpolation Off Resp. control Off				isi Signai/ivlode	ivone	
Interpolation Off			า	Dark blood	Off	
Resp. control Off	Interpolation	Off				
1 PA 1 MORE (PAT mode	GRAPPA	 \	Resp. control	Off	
			1	Inline		
7.000.1.000.1.2					Off	
			-1-1			
Matrix Coil Mode Auto (Triple) Std-Dev-Sag Off						
Reference scan mode Integrated Std-Dev-Cor Off	Reference scan mo	ode Integrate	d			
Image Filter Off Std-Dev-Time Off Off	Image Filter	Off				
Old Dev Time						
Distortion Corr. Off MIP-Sag Off	Pistortion Con.	OII		MIP-Sag	Off	

MR046

B 15₩P-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

On
2D
Off
Off
1
191 Hz/Px
No
60 s
12.7 ms
Turbo factor
13
11
Normal
Normal

1571.1	Voxel size: 1.6×1.6×3.0 mm	GEN\ADS_32 Matrix\gre_field_ Rel. SNR: 1.00 SIEMENS: o	_mapping M gre_field_mapping
TA. 1.50	VOXEL 3126. 1.0×1.0×3.0 Hilli		
Properties		Set-n-Go Protocol	Off
Prio Recon	Off	Table position	Н
Before measurement	Oli	Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On	System	
Inline movie	Off	Body	Off
Auto store images	On O#	HEP	On
Load to stamp segments	Off	HEA	On O"
Load images to graphic	Off	SP4	Off
segments		SP2	Off
Auto open inline display	Off	SP8	Off
AutoAlign Spine	Off	SP6	Off
Start measurement without	On	SP3	Off
further preparation		SP1	Off
Wait for user to start	Off	SP7	Off
Start measurements	single	SP5	Off
Start measurements	Sirigle	3F0	
outine		Positioning mode	REF
Slice group 1		MSMA	S - C - T
Slices	36	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	L0.0 A0.9 H25.5	Transversal	F >> H
Orientation	T > C-4.7	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	Auto Coil Select	Default
Phase oversampling	0 %	01:	
FoV read	210 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	3.0 mm	Confirm freq. adjustment	Off
TR	420 ms	Assume Silicone	Off
TE 1		? Ref. amplitude 1H	0.000 V
	5.19 ms	Adjustment Tolerance	Auto
TE 2	7.65 ms	Adjust volume	
Averages	1	Position	L0.0 A0.9 H25.5
Concatenations	1		T > C-4.7
Filter	None	Orientation	
Coil elements	HEA;HEP	Rotation	0.00 deg
		R >> L	210 mm
ontrast		A >> P	210 mm
MTC	Off	F >> H	108 mm
Flip angle	60 deg	0	
Fat suppr.	None	Composing	
Averaging mode	Long term	Sequence	
Reconstruction	Magn./Phase	Introduction	On
Measurements	1	Dimension	2D
	To all management of	Asymmetric echo	Off
Multiple series	Each measurement	Contrasts	2
esolution		Bandwidth	260 Hz/Px
Base resolution	128		
		Flow comp.	Yes
Phase resolution	100 %	RF pulse type	Normal
Phase partial Fourier	Off	Gradient mode	Normal
Interpolation	Off		
Matrix Coil Mode	Auto (CP)	RF spoiling	On
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
Raw filter	Off		
Elliptical filter	Off		
Geometry			
Multi-slice mode	Interleaved		
Series	Interleaved		

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\Resting State_iPAT

Voxel size: 3.3x3.3x5.0 mm Rel. SNR: 1.00

B15v1.1

TA: 12:01

PAT: 2

MR046

SIEMENS: ep2d_pace

Description		Series	Interleaved
Prio Pocon	Off		
Prio Recon Before measurement	Oli	Special sat.	None
After measurement		Set-n-Go Protocol	Off
Load to viewer	On	Table position	Н
Inline movie	Off	Table position	0 mm
Auto store images	On	Inline Composing	Off
Load to stamp segments	Off	System	
Load images to graphic	Off	Body	Off
segments		HEP	On
Auto open inline display	Off	I HEA	On
AutoAlign Spine	Off	SP4	Off
Start measurement without	On	SP2	Off
further preparation		SP8	Off
Wait for user to start	On	SP6	Off
Start measurements	single	SP3	Off
Poutino		SP1	Off
Routine Slice group 1		SP7	Off
Slice group 1	24	SP5	Off
Dist. factor	24 0 %		FIV
Position	0 % L0.0 A0.9 H25.5	Positioning mode	FIX
Orientation	T > C-4.7	MSMA	S-C-T
Phase enc. dir.	1 > C-4.7 A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal Transversal	A >> P
Phase oversampling	0.00 deg 0 %		F >> H
FoV read	210 mm	Coil Combine Mode	Sum of Squares
FoV phase	100.0 %	Auto Coil Select	Default
Slice thickness	5.0 mm	Shim mode	Standard
TR	1400 ms	Adjust with body coil	Off
TE	30 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	None	Adjustment Tolerance	Auto
Coil elements	HEA;HEP	Adjust volume	
1	1127 (,1121	Position	L0.0 A0.9 H25.5
Contrast		Orientation	T > C-4.7
MTC	Off	Rotation	0.00 deg
Flip angle	90 deg	R >> L	210 mm
Fat suppr.	Fat sat.	A >> P	210 mm
Averaging mode	Long term	F >> H	120 mm
Reconstruction	Magnitude	Physio	
Measurements	510	1st Signal/Mode	None
Delay in TR	0 ms	•	HOHE
Multiple series	Off	BOLD	
•		GLM Statistics	Off
Resolution	64	Dynamic t-maps	Off
Base resolution	64	Starting ignore meas	3
Phase resolution	100 %	Ignore after transition	0
Phase partial Fourier	Off	Model transition states	Off
Interpolation	Off	Temp. highpass filter	Off
PAT mode	GRAPPA	Threshold	4.00
Accel. factor PE	2	Paradigm size	20
Ref. lines PE	24	Meas[1]	Baseline
Matrix Coil Mode	CP	Meas[2]	Baseline
Reference scan mode	Separate	Meas[3]	Baseline
Distortion Corr	······	Meas[4]	Active
Distortion Corr.	Off	Meas[5]	Active
Prescan Normalize	Off	Meas[6]	Active
Raw filter	On O#	Meas[7]	Active
Elliptical filter	Off	Meas[8]	Active
Hamming	Off	Meas[9]	Active
Geometry		Meas[10]	Active
Multi-slice mode	Interleaved	Meas[11]	Active
1			

MR046	

E	3 1 53 v e4a ș 1 12]	Active
	Meas[13]	Active
	Meas[14]	Active
	Meas[15]	Active
	Meas[16]	Active
	Meas[17]	Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off

Introduction Bandwidth Free echo spacing Echo spacing	On 1628 Hz/Px Off 0.7 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\MSIT_iPAT

Voxel size: 3.3×3.3×3.0 mm Rel. SNR: 1.00

B15v1.1

TA: 6:26

MR046

SIEMENS: ep2d_pace

			· —
Properties		Series	Interleaved
Prio Recon	Off	Special sat.	None
Before measurement		Set-n-Go Protocol	Off
After measurement		Table position	H
Load to viewer	On	Table position	0 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On		Oli
Load to stamp segments	Off	System	
Load images to graphic	Off	Body	Off
segments		HEP	On
Auto open inline display	Off	HEA	On
AutoAlign Spine	Off	SP4	Off
Start measurement without	On	SP2	Off
further preparation	_	SP8	Off
Wait for user to start	On	SP6	Off
Start measurements	single	SP3	Off
Routine		SP1	Off
Slice group 1		SP7	Off
Slices	36	SP5	Off
Dist. factor	0 %	Positioning mode	EIV
Position	L0.0 A0.9 H25.5	Positioning mode	FIX S - C - T
Orientation	T > C-4.7	MSMA Societal	S-C-1 R>>L
Phase enc. dir.	A >> P	Sagittal Coronal	R >> L A >> P
Rotation	0.00 deg		
Phase oversampling	0 %	Transversal	F >> H
FoV read	210 mm	Coil Combine Mode	Sum of Squares
FoV phase	100.0 %	Auto Coil Select	Default
Slice thickness	3.0 mm	Shim mode	Standard
TR	2400 ms	Adjust with body coil	Off
TE	40 ms	Confirm freq. adjustment	Off
Averages	1	Assume Silicone	Off
Concatenations	1	? Ref. amplitude 1H	0.000 V
Filter	None	Adjustment Tolerance	Auto
Coil elements	HEA;HEP	Adjust volume	
Tooli elements	1167,1161	Position	L0.0 A0.9 H25.5
Contrast		Orientation	T > C-4.7
MTC	Off	Rotation	0.00 deg
Flip angle	90 deg	R >> L	210 mm
Fat suppr.	Fat sat.	A >> P	210 mm
Averaging mode	Long torm	F >> H	108 mm
Averaging mode	Long term	1	-
Reconstruction	Magnitude	Physio	
Measurements	157	1st Signal/Mode	None
Delay in TR	0 ms	BOLD	
Multiple series	Off	GLM Statistics	Off
Resolution		Dynamic t-maps	Off
Base resolution	64	Starting ignore meas	3
Phase resolution	100 %	Ignore after transition	0
Phase partial Fourier	Off	Model transition states	Off
Interpolation	Off	Temp. highpass filter	Off
		Threshold	4.00
PAT mode	GRAPPA	Paradigm size	20
Accel. factor PE	2	Meas[1]	Baseline
Ref. lines PE	24	Meas[2]	Baseline
Matrix Coil Mode	CP	Meas[3]	Baseline
Reference scan mode	Separate	Meas[4]	Active
Distortion Corr.	Off	Meas[5]	Active
Prescan Normalize	Off	Meas[6]	Active
Raw filter	On	Meas[7]	Active
Elliptical filter	Off	Meas[8]	Active
Hamming	Off	Meas[9]	Active
		Meas[10]	Active
Geometry		Meas[11]	Active
Multi-slice mode	Interleaved	I model 11	. 101170

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Sequence

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Meas[13]

Meas[14]

Meas[15]

Meas[16] Meas[17]

Meas[18]

Meas[19]

Meas[20]

Motion correction Spatial filter

1	
Introduction	On
Bandwidth	1628 Hz/Px
Free echo spacing	Off
Echo spacing	0.7 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast*

Active

Active

Active

Active

Active Active

Active

Active

Active Off

Off

1571.1	esearch Projects\ORYGEN\A PAT: 3 Voxel size: 0.9×0.9×	·	_sag_0.9mm MR046 SIEMENS: tfl
Properties		Image Filter	Off
Prio Recon	Off	 Distortion Corr. 	Off
Before measurement	Oil	Unfiltered images	Off
		Prescan Normalize	On
After measurement		Normalize	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off	Elliptical filter	On
Auto store images	On	Mode	Inplane
Load to stamp segments	Off	Mode	прыне
Load images to graphic	Off	Geometry	
segments	.	Multi-slice mode	Single shot
Auto open inline display	Off	Series	Ascending
		Series	Ascending
AutoAlign Spine	Off		
Start measurement without	On	Set-n-Go Protocol	Off
further preparation		Table position	Н
Wait for user to start	On	Table position	0 mm
Start measurements	single	Inline Composing	Off
Routine	3 -	•	Oll
Slab group 1		System Body	Off
Slabs	1	HEP	
Dist. factor	50 %		On
		HEA	On
Position	L3.8 A8.5 F0.6	SP4	Off
Orientation	S > C-2.6 > T0.6	SP2	Off
Phase enc. dir.	A >> P	SP8	Off
Rotation	0.00 deg	SP6	Off
Phase oversampling	43 %	SP3	Off
	45.5 %		
Slice oversampling		SP1	Off
Slices per slab	176	SP7	Off
FoV read	230 mm	SP5	Off
FoV phase	90.6 %		
Slice thickness	0.90 mm	Positioning mode	REF
TR	1900 ms	MSMA	S - C - T
TE	2.24 ms	Sagittal	R >> L
		Coronal	A >> P
Averages	1	Transversal	F >> H
Concatenations	1		
Filter	Prescan Normalize, Elliptical	Save uncombined	Off
	filter	Coil Combine Mode	Adaptive Combine
Coil elements	HEA;HEP	Auto Coil Select	Default
Contrast		Shim mode	Tune up
Magn. preparation	Non-sel, IR	Adjust with body coil	On
TI	900 ms	Confirm freq. adjustment	Off
		Assume Silicone	Off
Flip angle	9 deg	? Ref. amplitude 1H	0.000 V
Fat suppr.	None	·	
Water suppr.	None	Adjustment Tolerance	Auto
Avaraging mode	Longtorm	Adjust volume	
Averaging mode	Long 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
Resolution			
Base resolution	256	- F >> H	350 mm
Phase resolution	96 %	Physio	
Slice resolution	100 %		None
		1st Signal/Mode	None
Phase partial Fourier	7/8	Dark blood	Off
Slice partial Fourier	Off		••••••••••••••••••••••••••••••••••••••
Interpolation	On	Resp. control	Off
PAT mode	GRAPPA	Inline	
Accel. factor PE	3	Subtract	Off
Ref. lines PE	24		
Accel. factor 3D	1	Std-Dev-Sag	Off
	•	Std-Dev-Cor	Off
Matrix Coil Mode	Triple	Std-Dev-Tra	Off
Reference scan mode	Integrated	Ctd Day Time	Off
Neierence Scarrinoue	g. ato a	Std-Dev-Time	Oli

MR046

В	3 15₩₱-¢ or	Off
	MIP-Tra	Off
	MIP-Time	Off
	Save original images	On

Introduction Dimension	On 3D
Elliptical scanning Asymmetric echo Bandwidth Flow comp. Echo spacing	Off Allowed 200 Hz/Px No 6.7 ms
RF pulse type Gradient mode Excitation RF spoiling	Fast Fast* Non-sel. On

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\diff60_b3000_2.3_iPat2

Voxel size: 2.3×2.3×2.3 mm Rel. SNR: 1.00

B15v1.1

TA: 8:33

PAT: 2

MR046

SIEMENS: ep2d_diff

Properties		Multi-slice mode Series	Interleaved Interleaved
Prio Recon	Off	Series	
Before measurement		Special sat.	None
After measurement			
Load to viewer	On	Set-n-Go Protocol	Off
Inline movie	Off	Table position	H
Auto store images	On	Table position	0 mm
Load to stamp segments	On	Inline Composing	Off
Load images to graphic	Off	I milite Composing	Oli
segments	311	System	
Auto open inline display	Off	Body	Off
	Off	HEP	On
AutoAlign Spine		HEA	On
Start measurement without	On	SP4	Off
further preparation	•	SP2	Off
Wait for user to start	Off	SP8	Off
Start measurements	single		_
outine		SP6	Off
		SP3	Off
Slice group 1		SP1	Off
Slices	54	SP7	Off
Dist. factor	0 %	SP5	Off
Position	R0.5 A4.2 H16.5		
Orientation	T > S1.4	Positioning mode	REF
Phase enc. dir.	A >> P	MSMA	S - C - T
Rotation	0.00 deg	Sagittal	R >> L
Phase oversampling	0 %	Coronal	P >> A
FoV read	240 mm	Transversal	F >> H
	-	Coil Combine Mode	Adaptive Combine
FoV phase	100.0 %	Auto Coil Select	Default
Slice thickness	2.3 mm		
TR	7300 ms	Shim mode	Standard
TE	104 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	Raw filter, Prescan Normalize		0.000 V
Coil elements	HEA;HEP	? Ref. amplitude 1H	
		Adjustment Tolerance	Auto
ontrast		Adjust volume	
MTC	Off	Position	R0.5 A4.2 H16.5
Magn. preparation	None	Orientation	T > S1.4
Fat suppr.	Fat sat.	Rotation	0.00 deg
		R >> L	240 mm
Averaging mode	Long term	A >> P	240 mm
Reconstruction	Magnitude	F >> H	125 mm
Delay in TR	0 ms	1 11	120 11111
Multiple series	Off	Physio	
•		1st Signal/Mode	None
esolution			
Base resolution	104	Resp. control	Off
Phase resolution	100 %	Diff	
Phase partial Fourier	6/8		
Interpolation	Off	Diffusion mode	Free
		Diff. weightings	1
PAT mode	GRAPPA	b-value	3000 s/mm²
Accel. factor PE	2	Diff. weighted images	On
Ref. lines PE	24	Trace weighted images	On
Matrix Coil Mode	Triple	Average ADC maps	On
Reference scan mode	Separate	Individual ADC maps	Off
		FA maps	On
Distortion Corr.	Off	Mosaic	On
Prescan Normalize	On		Off
Raw filter	On	Tensor	
		Noise level	40
Intensity	Weak	Diff. directions	67
Slope	25	1	
Elliptical filter	Off	Sequence	
Hamming	Off	Introduction	On

B15 vels. 4 cho spacing Off
Echo spacing 0.57 ms

EPI factor 104
RF pulse type Normal
Gradient mode Fast

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\DTI_MGH_60Dir

Rel. SNR: 1.00

Voxel size: 2.0×2.0×2.0 mm

B15v1.1

TA: 10:42

PAT: 2

MR046

USER: ep2d_diff_MGH

Properties		Multi-slice mode	Interleaved
Prio Recon	Off	Series	Interleaved
Before measurement	Oli	Special sat.	None
After measurement		Opecial sat.	
Load to viewer	On	0-4 0- D4	O#
Inline movie	Off	Set-n-Go Protocol	Off
		Table position	H
Auto store images	On O#	Table position	0 mm
Load to stamp segments	Off	Inline Composing	Off
Load images to graphic	Off	System	
segments	0#	Body	Off
Auto open inline display	Off	HEP	On
AutoAlign Spine	Off	HEA	On
Start measurement without	On	SP4	Off
further preparation		SP2	Off
Wait for user to start	Off	SP8	Off
Start measurements	single	SP6	Off
Routine			
Slice group 1		SP3	Off
Slices	64	SP1	Off
Dist. factor	0 %	SP7	Off
		SP5	Off
Position	L0.0 P4.7 H14.8	Positioning mode	REF
Orientation	Transversal	MSMA	S-C-T
Phase enc. dir.	A >> P	Sagittal	R >> L
Rotation	0.00 deg	Coronal	A >> P
Phase oversampling	0 %		F >> H
FoV read	256 mm	Transversal	
FoV phase	100.0 %	Coil Combine Mode	Adaptive Combine
Slice thickness	2.00 mm	Auto Coil Select	Default
TR	8800 ms	Shim mode	Standard
TE	99 ms	Adjust with body coil	Off
Averages	1	Confirm freq. adjustment	Off
Concatenations	1	Assume Silicone	Off
Filter	Raw filter, Prescan Normalize	? Ref. amplitude 1H	0.000 V
Coil elements	HEA;HEP		
1		Adjustment Tolerance	Auto
Contrast		Adjust volume	100004711440
MTC	Off	Position	L0.0 P4.7 H14.8
Magn. preparation	None	Orientation	Transversal
Fat suppr.	Fat sat.	Rotation	0.00 deg
A	Langutanus	R >> L	256 mm
Averaging mode	Long term	A >> P	256 mm
Reconstruction	Magnitude	F >> H	128 mm
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Resolution			
Base resolution	128	Resp. control	Off
Phase resolution	100 %	Diff	
Phase partial Fourier	6/8		MDDW
Interpolation	Off	Diffusion mode	MDDW
·····		Diff. weightings	2
PAT mode	GRAPPA	b-value 1	0 s/mm²
Accel. factor PE	2	b-value 2	2000 s/mm²
Ref. lines PE	30	Mosaic	On
Matrix Coil Mode	Auto (Triple)	Noise level	40
Reference scan mode	Separate	Diff. directions	60
Distantian Com			
Distortion Corr.	Off	Sequence	
Prescan Normalize	On	Introduction	Off
Raw filter	On	Bandwidth	1776 Hz/Px
Intensity	Weak	Free echo spacing	Off
Slope	25	Echo spacing	0.69 ms
Elliptical filter	Off		
Hamming	Off	EPI factor	128
Geometry		RF pulse type	Normal

B15v4difent mode Fast
Sequence Mode Product

Diff Grad Table Single
Direction Scheme Single
Dummy Scans 3
T2 Weighted Images 10