


Medical Imaging	 The Royal Children's Hospital Melbourne
MRI _ADS Protocol B15v1.1 (MR046)	

Study label

Sequence	Completed <i>Yes No</i>	FWHM	T2*	Technical Reasons for Failure
HASTE Loc	<input type="checkbox"/> <input type="checkbox"/>			
Tran 2D T2	<input type="checkbox"/> <input type="checkbox"/>			
Field Map	<input type="checkbox"/> <input type="checkbox"/>			
Resting State	<input type="checkbox"/> <input type="checkbox"/>			
MSIT fMRI	<input type="checkbox"/> <input type="checkbox"/>			
3D MPRAGE	<input type="checkbox"/> <input type="checkbox"/>			
BRI 60 DTI	<input type="checkbox"/> <input type="checkbox"/>			
MGH 60 DTI	<input type="checkbox"/> <input type="checkbox"/>			
Export CD	<input type="checkbox"/> <input type="checkbox"/>			

Comments :

MR Tech		Date :
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B15v1.1

Table of contents

MR046

\\USER

Research Projects

ORYGEN

ADS_32 Matrix

HASTE_Loc

t2_tse_tra_320_p2_4mm

gre_field_mapping

Resting State_iPAT

MSIT_iPAT

T1_mpr_ns_sag_0.9mm

diff60_b3000_2.3_iPat2

DTI_MGH_60Dir

32 channel

MCR1 button Response
"right hand"

fMRI triggers.

Source ORY OP
Dr. YUCEM.f subject left handed
No MSIT TASK.

"Bow CD"

ADS_2403

MR046

18/11/1992

R423663



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



\\USER

Research Projects

ORYGEN

ADS_32 Matrix

HASTE_Loc

t2_tse_tra_320_p2_4mm

gre_field_mapping

Resting State_iPAT

MSIT_iPAT

T1_mpr_ns_sag_0.9mm

diff60_b3000_2.3_iPat2

DTI_MGH_60Dir

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

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

MR046

TA: 0:24 PAT: 2 Voxel size: 0.9x0.7x4.0 mm Rel. SNR: 1.00 SIEMENS: haste

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	3
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Slice group 2	
Slices	5
Dist. factor	20 %
Position	L0.0 P0.0 H9.6
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	3
Dist. factor	20 %
Position	L4.8 P0.0 H9.6
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	2000 ms
TE	89 ms
Averages	1
Concatenations	3
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

TD	0.0 ms
MTC	Off
Magn. preparation	None
Flip angle	150 deg
Fat suppr.	None
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	80 %
Phase partial Fourier	5/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Single shot
Series	Interleaved
Special sat.	None
Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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	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	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

B15v1.1
Physio

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

Sequence

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

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1	\\USER\Research Projects\ORYGEN\ADS_32 Matrix\t2_tse_tra_320_p2_4mm				MR046
TA: 1:02	PAT: 3	Voxel size: 0.7x0.7x4.0 mm	Rel. SNR: 1.00	SIEMENS: tse	

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	28
Dist. factor	20 %
Position	R1.7 P2.4 H12.5
Orientation	T > C-9.2 > S-1.8
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	37 %
FoV read	220 mm
FoV phase	85.0 %
Slice thickness	4.0 mm
TR	5000 ms
TE	102 ms
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
Fat sat. mode	Strong
Water suppr.	None
Restore magn.	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	27
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off

Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
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

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

B15W1-1	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Sequence

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1
Bandwidth	191 Hz/Px
Flow comp.	No
Allowed delay	60 s
Echo spacing	12.7 ms
Define	Turbo factor
Turbo factor	13
Echo trains per slice	11
RF pulse type	Normal
Gradient mode	Normal

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B15v1.1

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\gre_field_mapping

MR046

TA: 1:50

Voxel size: 1.6x1.6x3.0 mm

Rel. SNR: 1.00

SIEMENS: gre_field_mapping

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	36
Dist. factor	0 %
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	210 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	420 ms
TE 1	5.19 ms
TE 2	7.65 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	60 deg
Fat suppr.	None
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Rotation	0.00 deg
R >> L	210 mm
A >> P	210 mm
F >> H	108 mm

Composing

Sequence

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

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

MR046

TA: 12:01 PAT: 2 Voxel size: 3.3x3.3x5.0 mm Rel. SNR: 1.00 SIEMENS: ep2d_pace

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	On
Start measurements	single

Routine

Slice group 1	
Slices	24
Dist. factor	0 %
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	210 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	1400 ms
TE	30 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	510
Delay in TR	0 ms
Multiple series	Off

Resolution

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

Geometry

Multi-slice mode	Interleaved
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Series

Interleaved

Special sat.	None
Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Rotation	0.00 deg
R >> L	210 mm
A >> P	210 mm
F >> H	120 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	3
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Active
Meas[5]	Active
Meas[6]	Active
Meas[7]	Active
Meas[8]	Active
Meas[9]	Active
Meas[10]	Active
Meas[11]	Active

B15	Meas[12]	Active
	Meas[13]	Active
	Meas[14]	Active
	Meas[15]	Active
	Meas[16]	Active
	Meas[17]	Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off

Sequence

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

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

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

MR046

TA: 6:26

PAT: 2

Voxel size: 3.3x3.3x3.0 mm

Rel. SNR: 1.00

SIEMENS: ep2d_pace

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	On
Start measurements	single

Routine

Slice group 1	
Slices	36
Dist. factor	0 %
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	210 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	2400 ms
TE	40 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

Contrast

MTC	Off
Flip angle	90 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	157
Delay in TR	0 ms
Multiple series	Off

Resolution

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

Geometry

Multi-slice mode	Interleaved
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Series

Interleaved

Special sat.	None
Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	Off
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	L0.0 A0.9 H25.5
Orientation	T > C-4.7
Rotation	0.00 deg
R >> L	210 mm
A >> P	210 mm
F >> H	108 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	3
Ignore after transition	0
Model transition states	Off
Temp. highpass filter	Off
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Active
Meas[5]	Active
Meas[6]	Active
Meas[7]	Active
Meas[8]	Active
Meas[9]	Active
Meas[10]	Active
Meas[11]	Active

B15	Meas[12]	Active
	Meas[13]	Active
	Meas[14]	Active
	Meas[15]	Active
	Meas[16]	Active
	Meas[17]	Active
	Meas[18]	Active
	Meas[19]	Active
	Meas[20]	Active
	Motion correction	Off
	Spatial filter	Off

Sequence

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

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

\\USER\Research Projects\ORYGEN\ADS_32 Matrix\T1_mpr_ns_sag_0.9mm

MR046

TA: 3:29 PAT: 3 Voxel size: 0.9x0.9x0.9 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L3.8 A8.5 F0.6
Orientation	S > C-2.6 > T0.6
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	43 %
Slice oversampling	45.5 %
Slices per slab	176
FoV read	230 mm
FoV phase	90.6 %
Slice thickness	0.90 mm
TR	1900 ms
TE	2.24 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP

Contrast

Magn. preparation	Non-sel. IR
TI	900 ms
Flip angle	9 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	96 %
Slice resolution	100 %
Phase partial Fourier	7/8
Slice partial Fourier	Off
Interpolation	On
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	24
Accel. factor 3D	1
Matrix Coil Mode	Triple
Reference scan mode	Integrated

Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Single shot
Series	Ascending
Set-n-Go Protocol	Off
Table position	H
Table position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
HEA	On
SP4	Off
SP2	Off
SP8	Off
SP6	Off
SP3	Off
SP1	Off
SP7	Off
SP5	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	Tune up
Adjust with body coil	On
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

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

B15	MIP-For	Off
	MIP-Tra	Off
	MIP-Time	Off
	Save original images	On

Sequence		
	Introduction	On
	Dimension	3D
	Elliptical scanning	Off
	Asymmetric echo	Allowed
	Bandwidth	200 Hz/Px
	Flow comp.	No
	Echo spacing	6.7 ms

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

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

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

MR046

TA: 8:33 PAT: 2 Voxel size: 2.3x2.3x2.3 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
Load images to graphic segments	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	54
Dist. factor	0 %
Position	R0.5 A4.2 H16.5
Orientation	T > S1.4
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	240 mm
FoV phase	100.0 %
Slice thickness	2.3 mm
TR	7300 ms
TE	104 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	104
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Matrix Coil Mode	Triple
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	On
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode Interleaved
Series Interleaved

Special sat. None

Set-n-Go Protocol Off
Table position H
Table position 0 mm
Inline Composing Off

System

Body Off
HEP On
HEA On
SP4 Off
SP2 Off
SP8 Off
SP6 Off
SP3 Off
SP1 Off
SP7 Off
SP5 Off

Positioning mode REF
MSMA S - C - T
Sagittal R >> L
Coronal P >> A
Transversal F >> H
Coil Combine Mode Adaptive Combine
Auto Coil Select Default

Shim mode Standard
Adjust with body coil Off
Confirm freq. adjustment Off
Assume Silicone Off
? Ref. amplitude 1H 0.000 V
Adjustment Tolerance Auto
Adjust volume
Position R0.5 A4.2 H16.5
Orientation T > S1.4
Rotation 0.00 deg
R >> L 240 mm
A >> P 240 mm
F >> H 125 mm

Physio

1st Signal/Mode None
Resp. control Off

Diff

Diffusion mode Free
Diff. weightings 1
b-value 3000 s/mm²
Diff. weighted images On
Trace weighted images On
Average ADC maps On
Individual ADC maps Off
FA maps On
Mosaic On
Tensor Off
Noise level 40
Diff. directions 67

Sequence

Introduction On
Bandwidth 2290 Hz/Px

B15v4.4	EPI factor	104
	RF pulse type	Normal
	Gradient mode	Fast
<hr/>		
B15v4.4		
	Echo spacing	Off
	Echo spacing	0.57 ms

SIEMENS MAGNETOM TrioTim syngo MR B15

B15v1.1

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

MR046

TA: 10:42

PAT: 2

Voxel size: 2.0x2.0x2.0 mm

Rel. SNR: 1.00

USER: ep2d_diff_MGH

Properties

Prio Recon	Off
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	Off
Auto open inline display	Off
AutoAlign Spine	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slice group 1	
Slices	64
Dist. factor	0 %
Position	L0.0 P4.7 H14.8
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	2.00 mm
TR	8800 ms
TE	99 ms
Averages	1
Concatenations	1
Filter	Raw filter, Prescan Normalize
Coil elements	HEA;HEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	30
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Separate
Distortion Corr.	Off
Prescan Normalize	On
Raw filter	On
Intensity	Weak
Slope	25
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode Interleaved
Series Interleaved

Special sat. None

Set-n-Go Protocol Off
Table position H
Table position 0 mm
Inline Composing Off

System

Body Off
HEP On
HEA On
SP4 Off
SP2 Off
SP8 Off
SP6 Off
SP3 Off
SP1 Off
SP7 Off
SP5 Off

Positioning mode REF
MSMA S - C - T
Sagittal R >> L
Coronal A >> P
Transversal F >> H
Coil Combine Mode Adaptive Combine
Auto Coil Select Default

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

Position L0.0 P4.7 H14.8
Orientation Transversal
Rotation 0.00 deg
R >> L 256 mm
A >> P 256 mm
F >> H 128 mm

Physio

1st Signal/Mode None

Resp. control Off

Diff

Diffusion mode MDDW
Diff. weightings 2
b-value 1 0 s/mm²
b-value 2 2000 s/mm²
Mosaic On
Noise level 40
Diff. directions 60

Sequence

Introduction Off
Bandwidth 1776 Hz/Px
Free echo spacing Off
Echo spacing 0.69 ms
EPI factor 128
RF pulse type Normal

B15	Gradient mode	Fast
	Sequence Mode	Product
	Diff Grad Table	Single
	Direction Scheme	Single
	Dummy Scans	3
	T2 Weighted Images	10