\\USER\MGH\Diffusion\DTI\DIFFUSION \\ Voxel size: 1.7×1.7×5.0 mm \qquad Rel. SNR: 1.00

USER: ep2d_diff_MGH

TA: 2:00

PAT: 2

			,		
Properties		Series	Interleaved		
Prio Recon	Off	Special sat.	None		
Before measurement					
After measurement		Set-n-Go Protocol	Off		
Load to viewer	On	Table position	H		
Inline movie	Off				
		Table position	0 mm		
Auto store images	On	Inline Composing	Off		
Load to stamp segments	On	System			
	Load images to graphic Off		Off		
segments		Body HE2	On		
Auto open inline display	On	HE4	On		
Start measurement without	On		_		
further preparation		HE1	On		
Wait for user to start	Off	HE3	On		
Start measurements	single	Positioning mode	REF		
	Ğ	MSMA	S - C - T		
Routine		Sagittal	R >> L		
Slice group 1					
Slices	23	Coronal	A >> P		
Dist. factor	20 %	Transversal	F >> H		
Position	R3.0 A3.0 H0.0	Coil Combine Mode	Adaptive Combine		
Orientation	T > C-12.5	AutoAlign	Head > Brain Atlas		
Phase enc. dir.	A >> P	Auto Coil Select	Default		
Rotation	0.00 deg	Shim mode	Standard		
Phase oversampling	0 %				
FoV read	220 mm	Adjust with body coil	Off		
		Confirm freq. adjustment	Off		
FoV phase	100.0 %	Assume Silicone	Off		
Slice thickness	5.00 mm	? Ref. amplitude 1H	0.000 V		
TR	3120 ms	Adjustment Tolerance	Auto		
TE	88 ms	Adjust volume			
Averages	1	Position	R3.0 A3.0 H0.0		
Concatenations	1	Orientation	T > C-12.5		
Filter	Raw filter, Prescan Normalize	Rotation	0.00 deg		
Coil elements	HE1-4	R >> L	220 mm		
		A >> P	220 mm		
Contrast		F >> H	137 mm		
MTC	Off	1 >>11	137 111111		
Magn. preparation	None	Physio			
Fat suppr.	Fat sat.	1st Signal/Mode	None		
Averaging mode	Long torm				
Averaging mode	Long term	Resp. control	Off		
Reconstruction	Magnitude	Diff			
Delay in TR	0 ms	Diffusion mode	MDDW		
Multiple series	Off		2		
Resolution		Diff. weightings b-value 1	0 s/mm²		
Base resolution	128	- 1			
Phase resolution	100 %	b-value 2	1000 s/mm²		
Phase partial Fourier	6/8	Mosaic	On		
		Noise level	40		
Interpolation	Off	Diff. directions	30		
PAT mode	GRAPPA				
Accel. factor PE	2	Sequence			
Ref. lines PE	32	Introduction	On		
Matrix Coil Mode	Auto (Triple)	Bandwidth	1396 Hz/Px		
Reference scan mode	Separate	Free echo spacing	Off		
iverence scan mode	Ocparate	Echo spacing	0.8 ms		
Distortion Corr.	Off				
Prescan Normalize	On	EPI factor	128		
Raw filter	On	RF pulse type	Normal		
Intensity	Weak	Gradient mode	Fast*		
Slope	25				
		Sequence Mode	Product		
Elliptical filter	Off	Diff Grad Table	Single		
Hamming	Off	Direction Scheme	Single		
Geometry		Dummy Scans	3		
Multi-slice mode	Interleaved	T2 Weighted Images	5		
IVIGITA OHOO HIDGO	monouvou				

FFT Scale Factor 1.00 Diff Grad Mode XYZ

 $\verb|\USER\MGH\Diffusion\DTI\DIFFUSION_HighRes||$

Orientation T > C-12.5 AutoAlign Head of Auto Coil Select Default Phase enc. dir. A >> P Auto Coil Select Default Rotation 0.00 deg Shim mode Standa Phase oversampling 0 % Adjust with body coil Off FoV read 256 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 TR 8230 ms Adjustment Tolerance Auto All outs volume Adjust volume Adjust volume Averages 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Contrast HE1-4 Rotation 0.00 de Contrast HE1-4 Rospitation Physio Fat sat. Tesp. H 128 million Averaging mode Long term Resp. control Off Averaging mode Long term Resp. control Off		
Before measurement		
Seton measurement		
Load to viewer On		
Inline movie		
Auto store images On Load to stamp segments On Off System Load images to graphic segments Off System Segments segments and Load images to graphic segments Off Body Off Auto open inline display On HE2 On Auto open inline display On HE4 On Start measurement without further preparation On HE4 On Wait for user to start Off HE3 On Start measurements single Positioning mode REF Duttine MSMA S - C - Sagittal R. S - C - Sagittal Slices 64 Coronal A >> L Dist. factor 0 % Sagittal R. > L Position R. 3.0 A 3.0 Ho.0 Coil Combine Mode Adaptive MSMA Phase enc. dir. A. >> P Auto Coil Select Defaul Phase enc. dir. A. >> P Auto Coil Select Defaul Phylase oversampling 0% Auto Coil Select Defaul FoV phase 100.0 % <		
Load images to graphic segments Off System Auto open inline display Start measurement without further preparation On HE2 On Wait for user to start Off HE4 On Wait for user to start Off HE3 On Start measurements single Positioning mode REF Sutine MSMA S - C - Slices 64 Coronal A >> P Position R3.0 A3.0 H0.0 Coil Combine Mode Adaptinal Orientation T > C -12.5 Auto Align Head - Phase enc. dir. A >> P Availing Head - Postiton 0.00 deg Shim mode Stande Phase oversampling 0% Auto Coil Select Defaul FoV read 256 mm Confirm freq. adjustment Off FoV phase 100.0 % Shim mode Stande Averages 1 Assume Silicone Off TR 8230 ms Position Adjust with body coil Off		
Load images to graphic segments System		
Body		
HE2		
HE4		
HE1		
Wait for user to start		
Wait for user to start Start Measurements Off Start measurements HE3 On Start measurements single Positioning mode REF Solice group 1 Slice group 1 Sagittal R >> L Slices 64 Coronal A >> P Dist. factor 0 % Transversal F >> H Position R 3.0 A3.0 H0.0 Coil Combine Mode Adaptive Mode Orientation T > C-12.5 Auto Align Head 2 Phase enc. dir. A >> P Auto Goil Select Default Phase oversampling 0 % Adjust with body coil Off FoV read 256 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 off TR 8230 ms Adjust with body coil Off TR 8230 ms Adjust ment Tolerance Auto Averages 1 Position R.3.0 A Coil elements HE1-4 Posi		
Start measurements		
MSMA S - C - Sagittal R >> L		
Slice group 1	т	
Slice Group Slice Slices Dist. factor 0 % Position R3.0 A3.0 H0.0 Coil Combine Mode Adaptive AutoAlign Head of AutoAlign AutoCoil Belevier Off		
Transversal F >> H		
Distriction		
AutoAlign		
A > P Auto Coil Select Default	ve Combine	
Rotation	Brain Atlas	
Rotation		
Phase oversampling 0 % Adjust with body coil Off FoV read 256 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 mm TR 8230 ms Adjust volume Auto TE 81 ms Adjust volume Position R3.0 A Concatenations 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 dc Coil elements HE1-4 Rotation 0.00 dc Magn. preparation None Physio F >> H 128 mi Magn. preparation None Physio None None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Diff Delay in TR 0 ms Diff Diff. weightings 2 esolution 128 <td>ard</td>	ard	
FoV read 256 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 M TR 8230 ms Adjustment Tolerance Auto TE 81 ms Adjust volume Averages 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R> L 256 me Ontrast A >> P 256 me MTC Off Physio Magn. preparation None Physio Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Diff Multiple series Off Diffusion mode MDDW Multiple series Off Diffusion mode MDDW Phase resolution	iu	
FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 ° TR 8230 ms Adjustment Tolerance Auto TE 81 ms Adjust volume Averages 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R >> L 256 mm ontrast A >> P 256 mm MTC Off F >> H 128 mm Magn. preparation None Physio Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Multiple series Off Diff Diffsuion mode MDDW Multiple series Off Diffsuion mode MDDW Phase resolution 128 Devalue 1 Devalue 2 700 s/m Base resolution <t< td=""><td></td></t<>		
Slice thickness 2.00 mm 2 Ref. amplitude 1H 0.000 mm Adjustment Tolerance Auto		
TR 8230 ms Adjustment Tolerance Auto TE 81 ms Adjust volume Auto Averages 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R >> L 256 mi Ontrast A >> P 256 mi MTC Off F >> H 128 mi Magn. preparation None Physio Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Diff Delay in TR 0 ms Diff Diff Multiple series Off Diff weightings 2 esolution 128 b-value 1 0 s/ma Phase resolution 100 % Mosaic On	,	
TE 81 ms Adjust volume Averages 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R >> L 256 mi Ontrast A >> P 256 mi MTC Off F >> H 128 mi Magn. preparation None Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Diff Delay in TR 0 ms Diff Multiple series Off Diff weightings 2 b-value 1 0 s/mn b-value 2 700 s/m b-value 2 700 s/m b-value 2 700 s/m Mosaic On	/	
Averages 1 Position R3.0 A Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R >> L 256 mi Contrast A >> P 256 mi MTC Off F >> H 128 mi Magn. preparation None Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Delay in TR 0 ms Diff Multiple series Off Diff weightings 2 esolution b-value 1 0 s/mn Base resolution 100 % Mosaic On		
Concatenations 1 Orientation T > C- Filter Raw filter, Prescan Normalize Rotation 0.00 de Coil elements HE1-4 R >> L 256 mi Contrast A >> P 256 mi MTC Off F >> H 128 mi Magn. preparation None Physio Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Diff Delay in TR 0 ms Diff Diff Multiple series Off Diff weightings 2 desolution 128 b-value 1 0 s/mn Phase resolution 100 % Mosaic On		
Raw filter, Prescan Normalize	3.0 H0.0	
Coil elements HE1-4 R >> L 256 mi A >> P 256 mi MTC Off F >> H 128 mi Magn. preparation None Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Delay in TR 0 ms Diff Multiple series Off Diffusion mode MDDW Diff. weightings 2 b-value 1 0 s/mn b-value 2 700 s/m Phase resolution 100 % Mosaic On	-	
A >> P 256 min	∌g	
MTC	n	
MTC Off F >> H 128 mm Magn. preparation None Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Delay in TR 0 ms Diff Multiple series Off Diffusion mode MDDW Diff. weightings 2 b-value 1 0 s/mn b-value 2 700 s/m b-value 2 700 s/m Mosaic On	n	
Magn. preparation None Physio Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Delay in TR 0 ms Diff Multiple series Off Diffusion mode MDDW Diff. weightings 2 b-value 1 0 s/mn b-value 2 700 s/m b-value 2 700 s/m Mosaic On	n	
Fat suppr. Fat sat. 1st Signal/Mode None Averaging mode Long term Resp. control Off Reconstruction Magnitude Diff Delay in TR 0 ms Diff Multiple series Off Diffusion mode MDDW Diff. weightings 2 b-value 1 0 s/mn b-value 2 700 s/m Phase resolution 100 % Mosaic On		
Averaging mode Long term Resp. control Off Reconstruction Magnitude Delay in TR 0 ms Diff Multiple series Off Diffusion mode MDDW Esolution Diff. weightings 2 b-value 1 0 s/mn b-value 2 700 s/m Mosaic On		
Reconstruction Magnitude Delay in TR 0 ms Multiple series Off Base resolution Diff Diffusion mode MDDW Diff. weightings 2 b-value 1 0 s/mm b-value 2 700 s/m Phase resolution 100 % Mosaic On		
Delay in TR 0 ms Diff Multiple series Off Diffusion mode Diff. weightings MDDW Diff. weightings esolution b-value 1 0 s/mm Diffusion mode Diff. weightings Phase resolution 128 b-value 2 700 s/m Diffusion mode Diff. weightings Phase resolution 100 % Mosaic On		
Multiple series Off Diffusion mode Diff. weightings 2 b-value 1 b-value 2 Too s/mn b-value 2 Too s/m Mosaic On		
Diff. weightings 2 b-value 1 0 s/mm b-value 2 700 s/m b-value 2 700 s/m Mosaic On	ī	
esolution b-value 1 0 s/mn Base resolution 128 b-value 2 700 s/m Phase resolution 100 % Mosaic On		
Base resolution 128 b-value 2 700 s/r Phase resolution 100 % Mosaic On	.2	
Phase resolution 100 % Mosaic On		
Di di LE di Colo	NM²	
Phase partial Fourier 6/8 Noise level 40		
Interpolation Off Diff. directions 60		
PAT mode GRAPPA		
Accel. factor PE 2 Sequence		
Ref. lines PE 32 Introduction On		
Matrix Coil Mode Auto (Triple) Bandwidth 1396 F	z/Px	
Reference scan mode Separate Free echo spacing Off		
Echo spacing 0.8 ms		
Distortion Corr. Off		
Prescan Normalize On EPI factor 128		
Raw filter On RF pulse type Norma		
Intensity Weak Gradient mode Fast*		
Slone		
City die al filter	 I 	
Llamming Off	 I 	
Hamming Direction Scheme Single	 I 	

Interleaved

Geometry

Multi-slice mode

Dummy Scans

T2 Weighted Images

10

FFT Scale Factor 1.00 Diff Grad Mode XYZ

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