	\\USEI	R\Feinberglab\Jen\3DEPI_pil	loting\BP_ep3D_b	oold_multiecho_new_SH
TA: 0:42	PAT: 8	Voxel size: 1.0×1.0×0.9 mm	Rel. SNR: 1.00	USER: BP_ep3D_bold_multiecho_SH

Properties		Elliptical filter Hamming	Off Off
Prio Recon	Off		J.,
Before measurement		Geometry	
After measurement		Multi-slice mode	Interleaved
Load to viewer	On	Series	Interleaved
Inline movie	Off	Consist ant	Nama
Auto store images	On	Special sat.	None
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	0 mm
segments		Inline Composing	Off
Auto open inline display	Off		5 11
Start measurement without	On	System	
further preparation	011	T1	On
Wait for user to start	Off	M2	Off
Start measurements	single	B4	Off
Start measurements	Sirigie	M3	Off
Routine		V32	Off
Slab group 1			
Slabs	1	Positioning mode	REF
Dist. factor	50 %	MSMA	S - C - T
Position	Isocenter	Sagittal	R >> L
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
		Save uncombined	Off
Rotation	0.00 deg	Coil Combine Mode	Sum of Squares
Phase oversampling	0 %	AutoAlign	
Slice oversampling	0.0 %	Auto Coil Select	Default
Slices per slab	112		
FoV read	215 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	0.90 mm	Confirm freq. adjustment	Off
TR	44 ms	Assume Silicone	Off
TE	20 ms	! Ref. amplitude 1H	200.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	71010
Filter	None	Position	Isocenter
Coil elements	T1	Orientation	Transversal
Contrast		Rotation	0.00 deg 215 mm
MTC	Off	R >> L	
Flip angle	90 deg	A >> P	215 mm
Fat suppr.	None	F >> H	101 mm
		Physio	
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude		
Measurements	5	BOLD	
Delay in TR	0 ms	Motion correction	Off
Multiple series	Off	Spatial filter	Off
Resolution			
Base resolution	224	Sequence	0"
Phase resolution	100 %	Introduction	Off
		Dimension	3D
Slice resolution	100 %	Reordering	Linear
Phase partial Fourier	6/8	Contrasts	1
Slice partial Fourier	Off	Bandwidth	1062 Hz/Px
Interpolation	Off	Free echo spacing	Off
PAT mode	GRAPPA	Echo spacing	1.09 ms
Accel. factor PE	8		004
Ref. lines PE	96	EPI factor	224
		RF pulse type	Normal
Accel. factor 3D	1	Gradient mode	Fast
Ref. lines 3D	24	Excitation	Slab-sel.
Reference scan mode	Separate	RF spoiling	On
Distortion Corr.	Off	uno Ernet engle	O#
	U	use Ernst angle	Off
	Off		Off
Prescan Normalize Raw filter	Off On	Maxwell Correction log physio files	Off Off

FFT scale 1.00

 $\begin{array}{lll} \text{z shim} & 0.00 \text{ mT/m*ms} \\ \text{RF duration} & 2560 \text{ us} \\ \text{RF BWTP} & 5.2 \\ \text{EFFECTIVE TR} & 4928 \text{ ms} \\ \text{PatPartitions} & 112 \\ \text{EPI phase correction} & \text{local} \\ \end{array}$

PAT refscan mode segm LIN->PAR

use CAIPIOnCAIPI shift kz0CAIPI shift ky4dummy prepscan time3 ssilent gap0.000 s

	\\USER\Feinberglab\Jen\3DEPI	pilotina\BP	ep3D bol	d multiecho	original SH
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TA: 7.6 s PAT: Off Voxel size: 7.8×7.8×1.0 mm Rel. SNR: 1.00 USER: BP_ep3D_bold_multiecho_SH

Properties		Special sat.	None
Prio Recon	Off		ш
Before measurement		Table position	H
After measurement		Table position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off	System	
Auto store images	On		On
Load to stamp segments	Off	M2	Off
Load images to graphic	Off	B4	Off
segments		M3	Off
Auto open inline display	Off	V32	Off
Start measurement without	On		
further preparation		Positioning mode	REF
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
I	Single	Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Sum of Squares
Dist. factor	50 %	AutoAlign	
Position	Isocenter	Auto Coil Select	Default
Orientation	Transversal		
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0.00 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	0.0 %	Assume Silicone	Off
Slices per slab	32	? Ref. amplitude 1H	0.000 V
FoV read	500 mm	Adjustment Tolerance	Auto
FoV phase	100.0 %	Adjust volume	
Slice thickness	1.00 mm	Position	Isocenter
TR	100 ms	Orientation	Transversal
TE TE	52 ms	Rotation	0.00 deg
Averages	1	R >> L	500 mm
Concatenations	1	A >> P	500 mm
Filter	None	F >> H	32 mm
	T1	l	
Coil elements	11	Physio	
Contrast		1st Signal/Mode	None
MTC	Off	BOLD	
Flip angle	90 deg	Motion correction	Off
Fat suppr.	None	Spatial filter	Off
		Opalial filter	Oli
Averaging mode	Long term	Sequence	
Reconstruction	Magnitude	Introduction	Off
Measurements	1	Dimension	3D
Delay in TR	0 ms	Reordering	Linear
Multiple series	Off	Contrasts	1
Resolution		Bandwidth	752 Hz/Px
Base resolution	64	Free echo spacing	Off
Phase resolution	100 %	Echo spacing	1.4 ms
Slice resolution	100 %		
		EPI factor	64
Phase partial Fourier	Off	RF pulse type	Normal
Slice partial Fourier	Off Off	Gradient mode	Fast
Interpolation	Off	Excitation	Slab-sel.
PAT mode	None	RF spoiling	On
Distortion Corr.	Off	use Ernst angle	Off
Prescan Normalize	Off	Maxwell Correction	Off
Raw filter	On	log physio files	Off
Elliptical filter	Off	FFT scale	1.00
Hamming	Off	z shim	0.00 mT/m*ms
Hamming	OII	RF duration	2560 us
Geometry		RF BWTP	5.2
Multi-slice mode	Interleaved	EFFECTIVE TR	3200 ms
Series	Interleaved	PatPartitions	32
į.		3/11	

EPI phase correction local dummy prepscan time 3 s silent gap 0.000 s

\\USER\Feinberglab\Jen\3DEPI_piloting\BP_ep3D_bold_ME_modv1_SH_FOV215_grappa8_tr44_te20_p96_pf
TA: 0:23 PAT: 8 Voxel size: 1.0×1.0×0.9 mm Rel. SNR: 1.00 USER: BP_ep3D_bold_multiecho_SH

Properties		Elliptical filter Hamming	Off Off
Prio Recon	Off		•
Before measurement		Geometry	
After measurement	_	Multi-slice mode	Interleaved
Load to viewer	On	Series	Interleaved
Inline movie	Off	Special sat.	None
Auto store images	On	Opecial Sat.	
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	0 mm
segments		Inline Composing	Off
Auto open inline display	Off	Out to the	
Start measurement without	On	System	
further preparation		T1	On
Wait for user to start	Off	M2	On
Start measurements	single	B4	On
Doubling		M3	On
Routine		V32	Off
Slab group 1		Positioning mode	FIX
Slabs	1	MSMA	S - C - T
Dist. factor	50 %	_	8 -> L
Position	R1.4 A27.6 F12.8	Sagittal	
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg	Save uncombined	Off
Phase oversampling	0 %	Coil Combine Mode	Sum of Squares
Slice oversampling	0.0 %	AutoAlign	
Slices per slab	112	Auto Coil Select	Default
FoV read	215 mm	Shim mode	Standard
FoV phase	100.0 %		Off
Slice thickness	0.90 mm	Adjust with body coil	_
TR	44 ms	Confirm freq. adjustment	Off
TE	20 ms	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1 Name	Adjust volume	
Filter	None	Position	R1.4 A27.6 F12.8
Coil elements	B4;M2,3;T1	Orientation	Transversal
Contrast		Rotation	0.00 deg
MTC	Off	R >> L	215 mm
Flip angle	13 deg	A >> P	215 mm
Fat suppr.	None	F >> H	101 mm
		Physio	
Averaging mode	Long term	1st Signal/Mode	None
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	BOLD	
Delay in TR	0 ms	Motion correction	Off
Multiple series	Off	Spatial filter	Off
Resolution		· ·	
Base resolution	224	Sequence	0"
Phase resolution	100 %	Introduction	Off
		Dimension	3D
Slice resolution	100 %	Reordering	Linear
Phase partial Fourier	6/8	Contrasts	1
Slice partial Fourier	Off	Bandwidth	1062 Hz/Px
Interpolation	Off	Free echo spacing	Off
PAT mode	GRAPPA	Echo spacing	1.09 ms
Accel, factor PE	8	EDI factor	224
Ref. lines PE	96	EPI factor	
Accel. factor 3D	1	RF pulse type	Normal
Ref. lines 3D	24	Gradient mode	Fast
Reference scan mode		Excitation	Slab-sel.
Reference Scart Mode	Separate	RF spoiling	On
Distortion Corr.	Off	use Ernst angle	Off
Prescan Normalize	Off	Maxwell Correction	Off
Raw filter	On	log physio files	Off
•		19 1, 5	÷ · ·

FFT scale 1.00

 z shim
 0.00 mT/m*ms

 RF duration
 2560 us

 RF BWTP
 5.2

 EFFECTIVE TR
 4928 ms

 PatPartitions
 112

 EPI phase correction
 local

PAT refscan mode segm LIN->PAR

use CAIPI Off dummy prepscan time 3 s silent gap 0.000 s

\\USER\Feinberglab\Jen\3DEPI_piloting\BP_ep3D_bold_ME_SH_p8mmiso_grappa8_tr44_tr1584_te20_p96_t\$
TA: 1:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3D_bold_multiecho_SH

Properties		Elliptical filter Hamming	Off Off
Prio Recon	Off		.
Before measurement		Geometry	
After measurement	_	Multi-slice mode	Interleaved
Load to viewer	On	Series	Interleaved
Inline movie	Off	Special sat.	None
Auto store images	On	Special Sat.	
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	0 mm
segments		Inline Composing	Off
Auto open inline display	Off		
Start measurement without	On	System	
further preparation		T1	On
Wait for user to start	Off	M2	On
Start measurements	single	B4	On
Ctart moadaromonto	cirigio	M3	On
Routine		V32	Off
Slab group 1			FIV
Slabs	1	Positioning mode	FIX
Dist. factor	50 %	MSMA	S - C - T
Position	R1.4 A27.6 F12.8	Sagittal	R >> L
Orientation	Transversal	Coronal	A >> P
Phase enc. dir.	A >> P	Transversal	F >> H
Rotation	0.00 deg	Save uncombined	Off
Phase oversampling	0.00 deg 0 %	Coil Combine Mode	Sum of Squares
Slice oversampling	0.0 %	AutoAlign	· ·
		Auto Coil Select	Default
Slices per slab	36		
FoV read	180 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	0.80 mm	Confirm freq. adjustment	Off
TR	44 ms	Assume Silicone	Off
TE	20 ms	? Ref. amplitude 1H	0.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	Position	R1.4 A27.6 F12.8
Coil elements	B4;M2,3;T1	Orientation	Transversal
	, , ,	Rotation	0.00 deg
Contrast		R >> L	180 mm
MTC	Off	A >> P	180 mm
Flip angle	13 deg	F >> H	29 mm
Fat suppr.	None	Г >> П	29 11111
Averaging mode	Long term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	30		
		BOLD	
Delay in TR	0 ms	Motion correction	Off
Multiple series	Off	Spatial filter	Off
Resolution		Sequence	
Base resolution	224	Introduction	Off
Phase resolution	100 %	Dimension	3D
Slice resolution	100 %		Linear
Phase partial Fourier	6/8	Reordering	Linear 1
Slice partial Fourier	Off	Contrasts	•
Interpolation	Off	Bandwidth	1062 Hz/Px
merpolation	OII	Free echo spacing	Off
PAT mode	GRAPPA	Echo spacing	1.11 ms
Accel. factor PE	8	EPI factor	224
Ref. lines PE	96	RF pulse type	Normal
Accel. factor 3D	1	Gradient mode	Fast
Ref. lines 3D	24	Excitation	Slab-sel.
Reference scan mode	Separate		
		RF spoiling	On
Distortion Corr.	Off	use Ernst angle	Off
Prescan Normalize	Off	Maxwell Correction	Off
Raw filter	On	log physio files	Off
ı		1 29 5, 5.555	- · ·

FFT scale 1.00

 z shim
 0.00 mT/m*ms

 RF duration
 2560 us

 RF BWTP
 5.2

 EFFECTIVE TR
 1584 ms

 PatPartitions
 36

 EPI phase correction
 local

PAT refscan mode segm LIN->PAR

use CAIPIOffdummy prepscan time3 ssilent gap0.000 s

\\USEF	R∖Feinberg	glab\Jen\3DEPI_piloting\VAS	6O_116- Joseph r	nodified for STG
TA: 4.5 s	PAT: 3	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00	USER: VASO 116

Prio Recon Def Prior Recon Def Recon Reconsistent After measurement Af	Properties		PAT mode	GRAPPA
Before measurement		Off	Accel. factor PE	3
After measurement	Before measurement			
Load to viewer On	After measurement			•
Inline nove Orf	Load to viewer	On		
Load to stamp segments Off Raw filter Off Hamming Off Multi-site mode Interleaved Series Ascending Start measurements Single Special sat.	Inline movie	Off	Reference scan mode	Separate
Load to stamp segments Off Raw filter Off Hamming Off Multi-silice mode Interleaved Ascending Start measurements Single Special sat. Parallel F Gap 25.0 mm Thickness 100 mm T	Auto store images	On	Prescan Normalize	Off
Load images to graphic segments Auto open inline display Start measurement without further preparation Walt for user to start Start measurements single Special sat. Parallel F Special sat. Speci		Off		Off
Segments		-	Elliptical filter	Off
Auto open inline display Start measurement without further preparation Walf for user to start Start measurements Single Special sat. Parallel F Gap 25.0 mm Thickness 100 mm 1				Off
Start measurement without further preparation Wait for user to start Off Series Ascending Series Series Ascending Series Series Ascending Series Series Ascending Series		Off	1	
further preparation Multi-slice mode Interfeaved Wait for user to start Single Series Ascending Routine Special sat. Parallel F Slab group 1 Thickness 100 mm Slabs 1 Table position H Dist. factor 50 % Table position 0 mm Position Iscontented Inline Composing Off Orientation Transversal System Phase enc. dir. A > P System Rotation 0.00 deg T1 On Phase eversampling 0 % M2 On Slice seer slab 20 M3 On Slice seer slab 20 M3 On Slice seer slab 20 M3 On FoV read 210.0 mm V32 Off FoV phase 1,000 m Positioning mode REF Slice brickness 0,80 mm MSMA S - C - T TR 25 ms Coronal A >> P				
Wait for user to start Start measurements Single Septies Ascending		011		Interleaved
Start measurements		Off	Series	Ascending
Routine Siab group 1			Chariel act	Porollol E
Slab group 1 Slab group 1 Slab group 1 Slab s		Sirigle		
Slabs				
Dist. factor		4	T. 1.1. 30	
Position Orientation Isocenter Transversal Orientation Inline Composing Off Orientation Orientation Transversal Phase enc. dir. A >> P T1 On Phase oversampling O% M2 On M2 On Slices oversampling Slice oversampling Slice oversampling 10.0 % B4 On M3 On Slice sper slab 20 M3 On On M3 On FoV read 210.0 mm POSItioning mode REF MSMA S • C • T Scot • T FoV phase 100.0 % Positioning mode REF MSMA S • C • T Sagittal R > L TE 256.10 ms Contrast Coronal A > > P A >> P A >> P TE 26 ms Coronal A > > P A >> P A >> P A >> P Averages 1 contract 1 concatenations 1 Save uncombined Off Off Off Off Default Save uncombined Off Off Off Off Default Save uncombined Off Off Off Off Off Auto Coil Seelect Default Default None Auto Coil Seelect Default				
Orientation Transversal Phase enc. dir. A >> P System Rotation 0.00 deg M2 On Phase oversampling Slice oversampling Slice versampling Slice versampling 10.0 % B4 On Slice versampling Slice versampling Slice versampling Slice versampling Slice versampling 10.0 % M3 On FoV read 210.0 mm V32 Off FoV phase 100.0 % Positioning mode REF Slice thickness 0.80 mm MSMA S · C · T TR 2255.10 ms Sagittal R > L TE 26 ms Coronal A >> P Averages 1 Transversal F >> H Coil elements B4;M2,3;T1 AutoAlign Coil elements B4;M2,3;T1 AutoAlign Coil elements Perfusion mode Picore Q2TIPS Shim mode Standard T11 50 ms Adjust with body coil Off Coil representation 4 deg Presultation Adjust with body coil Off Fat sat, mode Strong<				_
Phase enc. dir.			Inline Composing	Off
Rotation			System	
M2				On
Silice oversampling 10.0 % 8				_
Silice versible				
Silice sper state		10.0 %		_
FoV phase 100.0 % Slice thickness 10.0 0 % Slice thickness 0.80 mm MSMA S - C - T Sagittal R > L Coronal A > P Averages 1 Transversal Tran	Slices per slab	20		_
Slice thickness 0.80 mm	FoV read	210.0 mm	V32	Off
Sice thickness 0.80 mm	FoV phase	100.0 %	Positioning mode	REF
TR 2258.10 ms Sagittal R >> L TE 26 ms Coronal A >> P Averages 1 Transversal F >> H Concatenations 1 Save uncombined Off Filter None Coll Combine Mode Sum of Squares Coll elements B4;M2,3;T1 Auto Cill Select Default Contrast Contrast Perfusion mode Picore Q2TIPS T12 700 ms Auto Cill Select Default Shim mode Standard T12 700 ms Confirm freq. adjust with body coil Off T11s 50 ms Confirm freq. adjust with body coil Off Fat suppr. Fat sat. Adjust with body coil Off Fat sat. mode Strong Ref. amplitude 1H 0.000 V Averaging mode Long term Adjust volume Auto Ajust volume Averaging mode Long term Position Isocenter Measurements 2 R	Slice thickness	0.80 mm		
TE	TR	2258.10 ms		
Averages	TE	26 ms		
Concatenations				
Filter		1		
Coil elements B4;M2,3;T1 AutoAlign Contrast Perfusion mode Picore Q2TIPS Auto Coil Select Default T12 700 ms Adjust with body coil Off T11 50 ms Confirm freq, adjustment Off T11s 50 ms Confirm freq, adjustment Off Flip angle 4 deg ? Ref, amplitude 1H 0.000 ∨ Fat sat. mode Strong Adjust ment Tolerance Auto Averaging mode Long term Adjust volume Boscenter Averaging mode Long term Position Isocenter Reconstruction Magn,/Phase Orientation Transversal Measurements 2 Rotation 0.00 deg Resolution Off A >> P 210 mm Multiple series Off A >> P 210 mm Perfusion mode Inversion time 1 50 ms Test Signal/Mode None Inversion time 2 700.0 ms BOLD Motion correction Off Resolution		None		_
Contrast Auto Coil Select Default Perfusion mode T12 T11 T11 T11 T11s T11s T11s T11s T11				
Perfusion mode	Con elements	D+,IVI2,3,1 1		
T12 700 ms Adjust with body coil Off T11 50 ms Confirm freq. adjustment Off T11s 50 ms Assume Silicone Off Flip angle 4 deg ? Ref. amplitude 1H 0.000 V Fat suppr. Fat sat. Adjust ment Tolerance Auto Fat sat. mode Strong Adjust volume Position Isocenter Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Rotation 0.00 deg Measurements 2 Rotation 0.00 deg Resolution Dono Resolution 0.00 deg Resolution mode PICORE Q2T Physio Inversion time 1 50 ms Test Signal/Mode None Inversion time 2 700.0 ms BOLD Physio Resolution 100 cm/s Motion correction Off Resolution 262 Sequence Phase resolution 100 % Introduction On Slice partial F	Contrast		Auto Coll Select	Detault
Til	Perfusion mode	Picore Q2TIPS	Shim mode	Standard
T11 50 ms Confirm freq. adjustment Off T11s 50 ms Assume Silicone Off Flip angle 4 deg ? Ref. amplitude 1H 0.000 V Fat suppr. Fat sat. Adjustment Tolerance Auto Averaging mode Long term Adjust volume Isocenter Averaging mode Long term Orientation Transversal Reconstruction Magn./Phase Rotation 0.00 deg Measurements 2 Rotation 0.00 deg Delay in TR 0 ms Rotation 0.00 deg Multiple series Off A > P 210 mm Multiple series Off A > P 210 mm F >> H 16 mm Physio Inversion time 1 50 ms Physio Intersion time 2 700.0 ms BOLD Flow limit 100 cm/s BOLD Resolution 262 Sequence Phase resolution 100 % Introduction On Slice partial Fourier<	TI2	700 ms	Adjust with body coil	Off
Tils 50 ms Assume Silicone Off Flip angle 4 deg ? Ref. amplitude 1H 0.000 V Fat suppr. Fat sat. Adjustment Tolerance Auto Fat sat. mode Strong Adjustment Tolerance Auto Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Rotation 0.00 deg Measurements 2 Rotation 0.00 deg Delay in TR 0 ms Rotation 0.00 deg Multiple series Off R >> L 210 mm Multiple series Off F >> H 16 mm Perfusion mode Inversion time 1 50 ms Test Signal/Mode None Inversion time 2 700.0 ms BOLD None Resolution 100 cm/s Motion correction Off Resolution 262 Sequence Phase resolution 100 % Introduction On Slice resolution 100 % Reordering Linear Slice partial	TI1	50 ms		
Flip angle 4 deg ? Ref. amplitude 1H 0.000 V Fat suppr. Fat sat. Adjust ment Tolerance Auto Fat sat. mode Strong Adjust wolume Isocenter Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Orientation Transversal Measurements 2 Rodation 0.00 deg Delay in TR 0 ms R >> L 210 mm Multiple series Off A >> P 210 mm Multiple series Off Physio The mode Inversion mode PICORE Q2T Physio None Inversion time 1 50 ms The Signal/Mode None Inversion time 2 700.0 ms BOLD None Resolution 100 cm/s Motion correction Off Resolution 262 Sequence Phase resolution 100 % Introduction On Slice partial Fourier 6/8 Reordering Linear Slice partial F	TI1s	50 ms		_
Fat suppr. Fat sat. Adjustment Tolerance Auto Fat sat. mode Strong Adjust volume Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Orientation Transversal Measurements 2 Rotation 0.00 deg Delay in TR 0 ms R >> L 210 mm Multiple series Off A >> P 210 mm Multiple series Off A >> P 210 mm Ferfusion mode PICORE Q2T Physio Interpolation None Perfusion time 1 50 ms Physio Physio None Interpolation 1st Signal/Mode None None BOLD Motion correction Off Off Resolution 100 cm/s Motion correction Off Sequence Sequence Introduction On Phase resolution 100 % Introduction On Slice partial Fourier 6/8 Reordering Linear	Flip angle	4 deg		
Fat sat. mode Strong Adjust volume Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Rotation 0.00 deg Measurements 2 Rotation 0.00 deg Delay in TR 0 ms R >> L 210 mm Multiple series Off A >> P 210 mm Multiple series Off Prysio 16 mm Perfusion mode Inversion time 1 50 ms Physio None Inversion time 2 700.0 ms BOLD None Inversion time 2 700.0 ms BOLD Off Resolution 100 cm/s Motion correction Off Resolution 262 Sequence Phase resolution 100 % Introduction On Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth		Fat sat.		*****
Averaging mode Long term Position Isocenter Reconstruction Magn./Phase Rotation 0.00 deg Measurements 2 Rotation 0.00 deg Delay in TR 0 ms R >> L 210 mm Multiple series Off A >> P 210 mm Multiple series Off A >> P 210 mm Perfusion mode PICORE Q2T Physio Inversion time 1 16 mm Inversion time 1 50 ms Physio None Inversion time 2 700.0 ms BOLD None Flow limit 100 cm/s Motion correction Off Resolution Sequence Sequence Phase resolution 100 % Introduction On Slice resolution 100 % Pinension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px		Strong		71010
Note				Isocenter
Reconstruction Magnifference Measurements 2 Delay in TR 0 ms Multiple series Off Perfusion mode Inversion time 1 50 ms Saturation stop time 1 50 ms Inversion time 2 700.0 ms Inversion time 2 700.0 ms Flow limit 100 cm/s Resolution Motion correction Spatial filter Phase resolution 262 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier 6/8 Slice partial Fourier 7/8 Interpolation Off Bandwidth 1192 Hz/Px				
Delay in TR		-		
Multiple series Off A >> P 210 mm Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit 50 ms Physio Inversion time 2 Flow limit 700.0 ms BOLD Resolution Motion correction Spatial filter Off Base resolution Phase resolution Slice resolution Slice resolution Phase partial Fourier Slice partial Fourier Slice partial Fourier T/8 Interpolation Reordering Contrasts Interpolation Linear Contrasts Interpolation		2		•
F >> H	Delay in TR	0 ms		
Perfusion mode Inversion time 1 50 ms Inversion time 2 700.0 ms Inversion time 2 700.0 ms Inversion time 2 100 cm/s Introduction Interpolation In	Multiple series	Off		
Inversion time 1 50 ms	Porfusion mode	DICODE OOT	F >> H	ווווו סו
Saturation stop time 50 ms Inversion time 2 700.0 ms Inversion time 2 700.0 ms Flow limit 100 cm/s BOLD Resolution Spatial filter Off Base resolution 262 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier 7/8 Interpolation Off Since Sinc			Physio	
Inversion time 2 700.0 ms Flow limit 100 cm/s Motion correction Off Resolution Spatial filter Off Base resolution 262 Phase resolution 100 % Introduction On Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off			•	None
Flow limit 100 cm/s Motion correction Off Resolution Spatial filter Off Base resolution 262 Sequence Phase resolution 100 % Introduction On Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px				
Resolution Base resolution Phase resolution Slice resolution Phase partial Fourier Slice partial Fourier Slice partial Fourier Fourie				
Base resolution 262 Sequence Phase resolution 100 % Introduction On Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px	Flow limit	100 cm/s	Motion correction	
Phase resolution 100 % Introduction On Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px	Resolution		Spatial filter	Off
Phase resolution100 %IntroductionOnSlice resolution100 %Dimension3DPhase partial Fourier6/8ReorderingLinearSlice partial Fourier7/8Contrasts1InterpolationOffBandwidth1192 Hz/Px	Base resolution	262	Sequence	
Slice resolution 100 % Dimension 3D Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px	Phase resolution	100 %		On
Phase partial Fourier 6/8 Reordering Linear Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px	Slice resolution			
Slice partial Fourier 7/8 Contrasts 1 Interpolation Off Bandwidth 1192 Hz/Px				
Interpolation Off Bandwidth 1192 Hz/Px			· ·	
Danawian 1132 112/1 X				•
Face acide		JII	Bandwidth Free echo spacing	1192 Hz/Px Off

Echo spacing	0.94 ms
EPI factor RF pulse type Gradient mode Excitation RF spoiling	262 Normal Fast Slab-sel. On
Ampl BWDTH ph.skip 4 Robert (the one) use Ernst angle Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI	100 150 3.1kHz 30 Off Off Off Off 1.00 3 s 0.00 mT/m*ms 2000 us 25.0 79 ms 42903 ms 19 local Flash 262 1000 Hz/px 4800 us 5 deg Off

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