\\USER\UserProtocols\Renzo\190906_CELMAR\Quin_pilot_250_V1

TA: 1:05	PAT: Off Voxel size: 1.0x	<1.0×3.0 mm Rel. SNR: 1.00	SIEMENS: tfl
Properties		Interpolation	Off
Prio Recon	Off	PAT mode	None
Before measurement	3		
After measurement		Image Filter	Off
Load to viewer	On	Distortion Corr.	Off
Inline movie	Off	Prescan Normalize	Off
Auto store images	On	Normalize	Off
Load to stamp segments	Off	B1 filter	Off
Load images to graphic	Off	Raw filter	Off
segments	.	Elliptical filter	Off
Auto open inline display	Off	Geometry	
Start measurement without	Off	Multi-slice mode	Sequential
further preparation	3	Series	Ascending
Wait for user to start	Off		Ascending
Start measurements	single	T. 1.1	
	onigio	Table position	H
Routine		Table position	0 mm
Slice group 1		Inline Composing	Off
Slices	9	System	
Dist. factor	20 %	V32	Off
Position	R4.0 A23.3 F1.6	A32	On
Orientation	S > C-3.6		
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg	MSMA	S - C - T
Slice group 2		Sagittal	R >> L
Slices	5	Coronal	A >> P
Dist. factor	80 %	Transversal	F >> H
Position	L0.0 A31.9 F4.8	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	AutoAlign	
Rotation	0.00 deg	Auto Coil Select	Default
Slice group 3	9	Chima manda	T
Slices	7	Shim mode	Tune up
Dist. factor	50 %	Adjust with body coil	Off
Position	R2.4 P21.6 F0.6	Confirm freq. adjustment	Off
Orientation	Coronal	Assume Silicone	Off
Phase enc. dir.	R >> L	! Ref. amplitude 1H	270.000 V
Rotation	0.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
FoV read	200 mm	Position	Isocenter
FoV phase	100.0 %	Orientation	Transversal
Slice thickness	3.0 mm	Rotation	0.00 deg
TR	3000 ms	R >> L	350 mm
TE	3.22 ms	A >> P	263 mm
Averages	1	F >> H	350 mm
Concatenations	21	Physio	
Filter	None	1st Signal/Mode	None
Coil elements	A32	Dark blood	Off
Contrast			
TD	0 ms	Resp. control	Off
Magn. preparation	Slice-sel. IR	Inline	
ТІ ТІ	1100 ms	Subtract	Off
Flip angle	6 deg	Std-Dev-Sag	Off
Fat suppr.	None	Std-Dev-Cor	Off
Water suppr.	None	Std-Dev-Tra	Off
		Std-Dev-Time	Off
Averaging mode	Long term	MIP-Sag	Off
Reconstruction	Magnitude	MIP-Cor	Off
Measurements	1	MIP-Cor MIP-Tra	Off
Multiple series	Each measurement	MIP-Tra MIP-Time	
Resolution			Off
Base resolution	192	Save original images	On
Phase resolution	100 %	0.5	
Phase resolution	100 % Off	Sequence	

Phase partial Fourier

Off

Introduction Dimension Asymmetric echo Bandwidth Flow comp. Echo spacing	On 2D Off 240 Hz/Px No 6.5 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

\\USER\UserProtocols\Renzo\190906_CELMAR\VASO_139MAGECSSSI_setup					
TA: 17:04	PAT: 3	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00	USER: VASO_139	

Properties Prio Recon Before measurement After measurement Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Start measurement without further preparation Wait for user to start	Off On Off On Off On Off Off Off Off	PAT mode Accel. factor PE Ref. lines PE Accel. factor 3D Ref. lines 3D Reference scan mode Prescan Normalize Raw filter Elliptical filter Hamming Geometry Multi-slice mode Series	GRAPPA 3 45 1 24 Separate Off Off Off Off Off Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap Thickness	25.0 mm 100 mm
Slab group 1 Slabs Dist. factor Position Orientation	1 50 % R4.5 A19.9 H27.5 T > C-10.7 > S0.7	Table position Table position Inline Composing	H 0 mm Off
Phase enc. dir.	A >> P	System V32	Off
Rotation Phase oversampling	0.00 deg 0 %	A32	On
Slice oversampling	8.3 %		
Slices per slab	96	Positioning mode MSMA	REF S - C - T
FoV read	133.0 mm	Sagittal	R >> L
FoV phase	133.3 %	Coronal	A >> P
Slice thickness	0.80 mm	Transversal	F >> H
TR	8324.60 ms	Save uncombined	Off
TE	24 ms	Coil Combine Mode	Sum of Squares
Averages Concatenations	1	AutoAlign	
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
1	7.02	Adjust with body coil	Off
Contrast	00.01.7/4.00	Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	650 ms 50 ms	! Ref. amplitude 1H	220.000 V
TI1s	50 ms	Adjustment Tolerance	Auto
Flip angle	4 deg	Adjust volume	D4 0 A45 5 H07 0
Fat suppr.	Fat sat.	! Position	R4.8 A15.5 H27.0
Fat sat. mode	Strong	! Orientation ! Rotation	T > C-9.9 > S0.6 90.00 deg
A	Long town	! A >> P	190 mm
Averaging mode Reconstruction	Long term Magnitude	! R >> L	140 mm
Measurements	123	! F >> H	77 mm
Delay in TR	0 ms	Dhysis	
Multiple series	Off	Physio 1st Signal/Mode	None
	DIOODE OOT		None
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1 Saturation stop time	50 ms 50 ms	Motion correction	Off
Inversion time 2	650.0 ms	Spatial filter	Off
Flow limit	100 cm/s	Sequence	
į ·	. 55 51140	Introduction	On
Resolution	100	Dimension	3D
Base resolution	162	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 % 6/8	Bandwidth	1144 Hz/Px
Phase partial Fourier Slice partial Fourier	6/8 Off	Free echo spacing	Off
Interpolation	Off	Echo spacing	0.98 ms
		EPI factor	216

Ampl 100 MAGEC FA 12 in deg ph.skip 4 Robert (the one) 1 MAGEC SS-SI? On Maxwell Correction Off log physio files Off FFT scale 2.50 dummy prepscan time 3 s z shim 0.00 mT/m*ms RF duration 2000 us RF BWTP 25.0 Renzo: Delta TI 71 ms EFFECTIVE TR 842504 ms PatPartitions 104 EPI phase correction local PAT refscan mode Flash FlashRef BaseRes 162 FlashRef BW 100 Hz/px FlashRef TE 7000 us FlashRef FA 5 deg use CAIPI Off	RF pulse type Gradient mode Excitation RF spoiling	Normal Normal Slab-sel. On
	MAGEC FA ph.skip 4 Robert (the one) MAGEC SS-SI? 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	12 in deg 1 On Off Off Off 2.50 3 s 0.00 mT/m*ms 2000 us 25.0 71 ms 842504 ms 104 local Flash 162 100 Hz/px 7000 us 5 deg

\\USER\	\UserProto	ocols\Renzo\190906_CEL	MAR\VASO_13	9MAGECSSSI_setup	
TA: 0:13	PAT: 6	Voxel size: 0.8x0.8x0.8 mn	n Rel. SNR: 1.0	00 USER: VASO 139	

Properties		PAT mode Accel. factor PE	GRAPPA 3
Prio Recon	Off	Ref. lines PE	45
Before measurement		Accel. factor 3D	2
After measurement	0-	Ref. lines 3D	24
Load to viewer	On O#	Reference scan mode	Separate
Inline movie	Off On	Dragge Normaliza	O#
Auto store images Load to stamp segments	Off	Prescan Normalize Raw filter	Off Off
Load images to graphic	Off		Off
segments	Oli	Elliptical filter Hamming	Off
Auto open inline display	Off	Паппппу	Oli
Start measurement without	On	Geometry	
further preparation	OII	Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Ascending
Start measurements	single	Charielant	Develled C
Start measurements	Sirigie	Special sat.	Parallel F 25.0 mm
Routine		Gap	
Slab group 1		Thickness	100 mm
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	R5.1 A10.7 H28.4	Inline Composing	Off
Orientation	T > C-10.7 > S0.7	1	
Phase enc. dir.	A >> P	System	0#
Rotation	0.00 deg	V32	Off
Phase oversampling	0 %	A32	On
Slice oversampling	8.3 %	Positioning mode	REF
Slices per slab	96	MSMA	S - C - T
FoV read	133.0 mm	Sagittal	R >> L
FoV phase	133.3 %	Coronal	A >> P
Slice thickness	0.80 mm	Transversal	F >> H
TR	4489.60 ms	Save uncombined	Off
TE	24 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	· ·
Concatenations	1	Auto Coil Select	Default
Filter	None		0: 1 1
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
Perfusion mode	SS-SI VASO	Confirm freq. adjustment Assume Silicone	Off Off
TI2	650 ms	! Ref. amplitude 1H	220.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	Auto
Flip angle	4 deg	! Position	R5.4 A6.8 H24.6
Fat suppr.	Fat sat.	! Orientation	T > C-9.9 > S0.6
Fat sat. mode	Strong	! Rotation	90.00 deg
Avaraging made	Long torm	! A >> P	190 mm
Averaging mode Reconstruction	Long term	! R >> L	140 mm
Measurements	Magnitude 3	!F>> H	77 mm
Delay in TR	0 ms	Ī	
	Off	Physio	
Multiple series	OII	1st Signal/Mode	None
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1	50 ms	Motion correction	Off
Saturation stop time	50 ms	Spatial filter	Off
Inversion time 2	650.0 ms	· ·	J
Flow limit	100 cm/s	Sequence	
Resolution		Introduction	On
Base resolution	162	Dimension	3D
	100 %	Reordering	Linear
Phase resolution Slice resolution	100 % 100 %	Contrasts	1
Phase partial Fourier	6/8	Bandwidth	1144 Hz/Px
T LIGAS VALUAL EUULISI	U/ U	Free echo spacing	Off
			0.00
Slice partial Fourier	Off	Echo spacing	0.98 ms
			0.98 ms 216

RF pulse type Gradient mode Excitation RF spoiling	Normal Normal Slab-sel. On
Ampl MAGEC FA ph.skip 4 Robert (the one) MAGEC SS-SI? 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 CAIPI shift kz CAIPI shift ky	100 12 in deg 1 On Off Off Off 2.50 3 s 0.00 mT/m*ms 2000 us 25.0 71 ms 233459 ms 52 local Flash 162 100 Hz/px 7000 us 5 deg On 0