\\USER\UserProtocols\Renzo\VALSALVA_160205\Quin_pilot_250V

TA: 0:41	PAT: Off Voxel size: 1.0	0×1.0×5.0 mm Rel. SNR: 1.00	SIEMENS: tfl
Properties		Interpolation	Off
Prio Recon	Off	PAT mode	None
Before measurement			
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	011	Elliptical filter	Off
Auto open inline display	Off	Geometry	
Start measurement without	Off	Multi-slice mode	Sequential
further preparation		Series	Ascending
Wait for user to start	Off		7.300Hdilig
Start measurements	single	Table position	Н
	9	Table position Table position	П 0 mm
Routine		Inline Composing	Off
Slice group 1	_	I mille Composing	Oli
Slices	7	System	
Dist. factor	80 %	V32	Off
Position	L0.0 A18.9 F0.7	A32	On
Orientation	Sagittal		
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg	MSMA	S - C - T
Slice group 2		Sagittal	R >> L
Slices	3	Coronal	A >> P
Dist. factor	160 %	Transversal	F >> H
Position	L0.0 A16.2 H45.9	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		Shim mode	Tune up
Slices	3	Adjust with body coil	Off
Dist. factor	200 %	Confirm freq. adjustment	Off
Position	L0.0 A8.1 H1.7	Assume Silicone	Off
Orientation	Coronal	! Ref. amplitude 1H	220.000 V
Phase enc. dir.	R >> L	Adjustment Tolerance	Auto
Rotation	0.00 deg	Adjust volume	Auto
Phase oversampling	0 %	Position	Isocenter
FoV read	200 mm	Orientation	Transversal
FoV phase	100.0 %	Rotation	0.00 deg
Slice thickness	5.0 mm	R>>L	350 mm
TR	3000 ms	A >> P	263 mm
TE	3.17 ms	F>> H	350 mm
Averages	1	F <i>>></i>	330 mm
Concatenations	13	Physio	
Filter	None	1st Signal/Mode	None
Coil elements	A32	Dark blood	Off
Contrast	0 ms	Resp. control	Off
Magn. preparation	Slice-sel. IR	Inline	
TI	1100 ms		0#
Flip angle	6 deg	Subtract	Off
Fat suppr.	None	Std-Dev-Sag	Off
Water suppr.	None	Std-Dev-Cor	Off
νναισι συμμι.	1 NOTIG	Std-Dev-Tra	Off
Averaging mode	Long term	Std-Dev-Time	Off
Reconstruction	Magnitude	MIP-Sag	Off
Measurements	1	MIP-Cor	Off
Multiple series	Each measurement	MIP-Tra	Off
•		MIP-Time	Off
Resolution	102	Save original images	On
Base resolution	192	1	
Phase resolution	100 %	Sequence	

Phase partial Fourier

Off

Introduction Dimension Asymmetric echo Bandwidth Flow comp. Echo spacing	On 2D Off 240 Hz/Px No 6.4 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

\\USER\UserProtocols\Renzo\VALSALVA_160205\2x23DVASO_monsterfat_2x1_flash_CAIPI_8_slices_30mm
TA: 9:36 PAT: 2 Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: VASO_109

		I PAT mode	GRAPPA
Properties		- Accel. factor PE	2
Prio Recon	Off	Ref. lines PE	24
Before measurement		Accel. factor 3D	1
After measurement	_	Ref. lines 3D	8
Load to viewer	On	Reference scan mode	Separate
Inline movie	Off		
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	0#	Hamming	Off
Auto open inline display	Off	Geometry	
Start measurement without	On	Multi-slice mode	Interleaved
further preparation	0#	Series	Ascending
Wait for user to start	Off		······································
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		- Thickness	100 mm
Slabs	1	Table position	H
Dist. factor	50 %	Table position	0 mm
Position	R1.0 A18.1 H11.7	Inline Composing	Off
Orientation	T > C-10.6		
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	V32	Off
Phase oversampling	0 %	A32	On
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	8	MSMA	S - C - T
FoV read	192.0 mm	Sagittal	R≫L
FoV phase	100.0 %	Coronal	A >> P
Slice thickness	2.00 mm	Transversal	F >> H
TR	1482.00 ms	Save uncombined	Off
TE	22 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	
Concatenations	1	Auto Coil Select	Default
Filter	None		
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
	Dioara COTIDO	 Confirm freq. adjustment 	Off
Perfusion mode TI2	Picore Q2TIPS 1025 ms	Assume Silicone	Off
TI1	50 ms	! Ref. amplitude 1H	220.000 V
Tl1s	50 ms	Adjustment Tolerance	Auto
Flip angle	14 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L0.0 A19.5 H21.2
Fat sat. mode	Strong	! Orientation	S > T0.7
		! Rotation	-0.26 deg
Averaging mode	Long term	!F>> H	54 mm
Reconstruction	Magnitude	! A >> P	192 mm
Measurements	389	! R >> L	163 mm
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Perfusion mode	PICORE Q2T	•	
Inversion time 1	50 ms	BOLD	0"
Saturation stop time	50 ms	Motion correction	Off
Inversion time 2	1025.0 ms	Spatial filter	Off
Flow limit	1025.0 ms 100.0 cm/s	Sequence	
1	100.0 611//3	Introduction	On
Resolution		_ Dimension	3D
Base resolution	96	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	2084 Hz/Px
Phase partial Fourier	Off	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	0.57 ms
Interpolation	Off		
		EPI factor	96

Ampl 95 BWDTH 150 3.1kHz thickness 30 use Ernst angle Off	
Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP 25.0 EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI Off Off Off Off Off Off Off O	

\\USER\UserProtocols\Renzo\VALSALVA_160205\No_transmit_voltage_3D_otpti
TA: 2:45 PAT: 2 Voxel size: 1.1×1.1×1.8 mm Rel. SNR: 1.00 USER: VASO_109

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	Off On Off On Off 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	GRAPPA 2 24 1 8 Separate Off Off Off Off Off
further preparation Wait for user to start	Off	Series	Ascending
Start measurements	single	Special sat.	Parallel F
Routine	3	Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs Slabs Dist. factor Position Orientation	1 50 % R1.3 A10.1 H54.4 T > C2.8	Table position Table position Inline Composing	H 0 mm Off
Phase enc. dir.	R >> L	System	0#
Rotation	90.00 deg	V32 A32	Off On
Phase oversampling Slice oversampling	0 % 0.0 %		
Slices per slab	10	Positioning mode MSMA	FIX S - C - T
FoV read	34.4 mm	Sagittal	8-6-1 R>>L
FoV phase	300.0 %	Coronal	A >> P
Slice thickness	1.80 mm	Transversal	F >> H
TR	1648.40 ms	Save uncombined	Off
TE Averages	24 ms	Coil Combine Mode	Sum of Squares
Concatenations	1	AutoAlign	Default
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
Perfusion mode	Picore Q2TIPS	Confirm freq. adjustment Assume Silicone	Off Off
TI2	900 ms	! Ref. amplitude 1H	0.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	30 deg	! Position	L0.0 A19.5 H21.2
Fat suppr. Fat sat. mode	Fat sat. Strong	! Orientation	S > T0.7
		! Rotation	-0.26 deg
Averaging mode	Long term	!F>>H !A>>P	54 mm 192 mm
Reconstruction	Magn./Phase	!R>>L	163 mm
Measurements Delay in TR	100 0 ms	1	100 11111
Multiple series	Off	Physio 194 Cignol/Mada	Nana
	-	1st Signal/Mode	None
Perfusion mode Inversion time 1	PICORE Q2T 50 ms	BOLD	
Saturation stop time	50 ms	Motion correction	Off
Inversion time 2	900.0 ms	Spatial filter	Off
Flow limit	100.0 cm/s	Sequence	
Resolution		Introduction	On
Base resolution	32	Dimension Poordoring	3D Linear
Phase resolution	100 %	Reordering Contrasts	Linear 1
Slice resolution	100 %	Bandwidth	1 1042 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	1.08 ms
Interpolation	Off	EPI factor	96

RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Ampl BWDTH thickness use Ernst angle Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef FA use CAIPI	100 150 3.1kHz 30 Off Off Off Off 1.00 3 s 0.00 mT/m*ms 2560 us 25.0 16484 ms 10 local Flash 32 1000 Hz/px 4800 us 5 deg Off