\\USER\UserProtocols\Renzo\V1_template\26_slices_assym_TR5s						
TA: 0:14	PAT: 3	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00	USER: VASO_124		
					-	

.		PAT mode	GRAPPA
Properties	0"	Accel. factor PE	3
Prio Recon	Off	Ref. lines PE	45
Before measurement		Accel. factor 3D	1
After measurement Load to viewer	On	Ref. lines 3D	22
Inline movie	Off	Reference scan mode	Separate
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	OII	Hamming	Off
Auto open inline display	Off	1	OII
Start measurement without	On	Geometry	
further preparation		Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Ascending
Start measurements	single	Special sat.	Parallel F
Routine	, and the second	Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	ш
Dist. factor	50 %	Table position Table position	H 0 mm
Position	R1.4 A21.2 F2.4	Inline Composing	Off
Orientation	T > C-15.9	Inline Composing	Oil
Phase enc. dir.	P >> A	System	
Rotation	180.00 deg	V32	Off
Phase oversampling	0 %	A32	On
Slice oversampling	7.7 %	Positioning mode	REF
Slices per slab	26	Positioning mode MSMA	S-C-T
FoV read	133.0 mm	Sagittal	R >> L
FoV phase	133.3 %	Coronal	A >> P
Slice thickness	0.82 mm	Transversal	F >> H
TR	2837.90 ms	Save uncombined	Off
TE	25 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	
Concatenations	1	Auto Coil Select	Default
Filter	None	Auto Coil Select	Delault
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
COHIIASI		Confirm from adjustment	Off
	CC CLV/ACO	Confirm freq. adjustment	
Perfusion mode	SS-SI VASO	Assume Silicone	Off
Perfusion mode TI2	650 ms		Off 220.000 V
Perfusion mode TI2 TI1	650 ms 50 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance	
Perfusion mode TI2 TI1 TI1s	650 ms 50 ms 50 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume	220.000 V
Perfusion mode TI2 TI1 TI1s Flip angle	650 ms 50 ms 50 ms 26 deg	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position	220.000 V Auto Isocenter
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr.	650 ms 50 ms 50 ms 26 deg Fat sat.	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation	220.000 V Auto Isocenter Transversal
Perfusion mode TI2 TI1 TI1s Flip angle	650 ms 50 ms 50 ms 26 deg	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation	220.000 V Auto Isocenter Transversal 90.00 deg
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode	650 ms 50 ms 50 ms 26 deg Fat sat. Strong	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr.	650 ms 50 ms 50 ms 26 deg Fat sat.	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements	650 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction	650 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series	650 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm
Perfusion mode T12 T11 T11s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None
Perfusion mode T12 T11 T11s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off Linear
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off Incompare the content of the conten
Perfusion mode T12 T11 T11s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution Phase resolution	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off 1 On 3D Linear 1 1064 Hz/Px
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution Phase resolution Slice resolution	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off Off Off Off Off Off O
Perfusion mode T12 T11 T11s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution Phase partial Fourier	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing Echo spacing	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off Off On 3D Linear 1 1064 Hz/Px Off 1.04 ms
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution Phase partial Fourier Slice partial Fourier	650 ms 50 ms 50 ms 50 ms 26 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 650.0 ms 100 cm/s	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	220.000 V Auto Isocenter Transversal 90.00 deg 178 mm 133 mm 22 mm None Off Off Off Off Off Off Off Off Off O

SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

RF pulse type Gradient mode Excitation RF spoiling	Normal Normal 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	150 150 3.1kHz 1 Off Off Off Off 3.00 3 s 0.00 mT/m*ms 2000 us 25.0 75 ms 79461 ms 28 local Flash 162 100 Hz/px 6500 us 5 deg Off