\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_ref_test

TA: 0:48 PAT: 3 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties	O#	PAT mode Accel. factor PE	GRAPPA 3
Prio Recon Before measurement	Off	Ref. lines PE	45
After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
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	.	Hamming	Off
Auto open inline display	Off	1	0.11
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
1	59.5	Gap	25.0 mm
Routine		Thickness	100 mm
Slab group 1			
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9	System	
Phase enc. dir.	A >> P	System	Off
Rotation	0.00 deg	V32	
Phase oversampling	0 %	A32	On
Slice oversampling	0.0 %	Positioning mode	REF
Slices per slab	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F >> H
TR	9623.30 ms	Save uncombined	Off
TE	25 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
Concatenations	1	Auto Coil Select	Default
Filter	None		
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
Perfusion mode	SS-SI VASO	Confirm freq. adjustment	Off
TI2	100 ms	Assume Silicone	Off
TI1	50 ms	! Ref. amplitude 1H	225.000 V
TI1s	50 ms	Adjustment Tolerance	Auto
Flip angle	4 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L1.8 A28.1 F0.8
Fat sat. mode	Strong	! Orientation	T > C-7.3
·····		! Rotation	90.00 deg
Averaging mode			
	Long term	! A >> P	174 mm
Reconstruction	Long term Magnitude	! R >> L	130 mm
Reconstruction	Magnitude	! R >> L ! F >> H	130 mm
Reconstruction Measurements	Magnitude 5	! R >> L ! F >> H Physio	130 mm 107 mm
Reconstruction Measurements Delay in TR Multiple series	Magnitude 5 0 ms Off	! R >> L ! F >> H Physio 1st Signal/Mode	130 mm
Reconstruction Measurements Delay in TR Multiple series Perfusion mode	Magnitude 5 0 ms Off PICORE Q2T	! R >> L ! F >> H Physio 1st Signal/Mode BOLD	130 mm 107 mm None
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1	Magnitude 5 0 ms Off PICORE Q2T 50 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction	130 mm 107 mm None
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD	130 mm 107 mm None
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter	130 mm 107 mm None
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence	130 mm 107 mm None Off Off
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction	130 mm 107 mm None Off Off Off
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension	130 mm 107 mm None Off Off Off 3D
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering	130 mm 107 mm None Off Off Off Linear
Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts	130 mm 107 mm None Off Off Off Indicate the second of t
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	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	130 mm 107 mm None Off Off Off Interval 1 1050 Hz/Px
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	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	130 mm 107 mm None Off Off Off Indian and
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 Phase partial Fourier	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing Echo spacing	130 mm 107 mm None Off Off Off On 3D Linear 1 1050 Hz/Px Off 1.06 ms
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 Phase partial Fourier Slice partial Fourier	Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	130 mm 107 mm None Off Off Off Indian are a second of the second of th

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 77 ms 1154796 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg Off

	\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G6_C3_test						
	TA: 0:31	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151		
Properties				PAT mode	GRAPPA		

Properties		PAT mode	GRAPPA
Prio Recon	Off	Accel. factor PE	6
Before measurement	Oll	Ref. lines PE	90
After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
Inline movie	Off	Reference scan mode	Separate
		Prescan Normalize	O#
Auto store images	On O#		Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	0.0	Hamming	Off
Auto open inline display	Off	Geometry	
Start measurement without	On	Multi-slice mode	Interleaved
further preparation		Series	Ascending
Wait for user to start	Off		Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
		Thickness	100 mm
Slab group 1	4		
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9	System	
Phase enc. dir.	A >> P	System	Off
Rotation	0.00 deg	V32	
Phase oversampling	0 %	A32	On
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm		
TR	6239.20 ms	Transversal	F >> H
TE	16 ms	Save uncombined	Off
	10 1115	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
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	Off
	100 ms	Assume Silicone	Off
TI2		! Ref. amplitude 1H	225.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	4 deg	! Position	L1.8 A28.1 F0.8
Fat suppr.	Fat sat.	! Orientation	T > C-7.3
Fat sat. mode	Strong	! Rotation	90.00 deg
Avoraging made	Longtorm	! A >> P	174 mm
Averaging mode	Long term	! R >> L	130 mm
Reconstruction	Magnitude	! F >> H	107 mm
Measurements	5	! r >> n	107 111111
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Dawfusian made	DICODE COT	1	
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1	50 ms	Motion correction	Off
Saturation stop time	50 ms	Spatial filter	Off
Inversion time 2	100.0 ms		
Flow limit	100 cm/s	Sequence	
Resolution		Introduction	On
	470	Dimension	3D
Base resolution	170	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1050 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	1.1 ms
Interpolation	Off		
I		EPI factor	226

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 48 ms 748704 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 3

	\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G6_C2_test					
	TA: 0:31	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	
Properties			-	PAT mode	GRAPPA	

Proportios		PAT mode	GRAPPA
Properties Prio Recon	Off	Accel. factor PE	6
Before measurement	Oii	Ref. lines PE	90
After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
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		Hamming	Off
Auto open inline display	Off		
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		Gap	25.0 mm
Slab group 1	_	Thickness	100 mm
Slabs	1	Table position	
Dist. factor	50 %	Table position Table position	H 0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	0 mm Off
Orientation	T > C-11.9		Oil
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	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F >> H
TR	6239.20 ms	Save uncombined	Off
TE	16 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
Concatenations	1	Auto Coil Select	Default
Filter	None		
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
Perfusion mode	SS-SI VASO	Confirm freq. adjustment	Off
TI2	100 ms	Assume Silicone	Off
TI1	50 ms	! Ref. amplitude 1H	225.000 V
TI1s	50 ms	Adjustment Tolerance	Auto
Flip angle	4 deg	Adjust volume	14.0.400.4.50.0
Fat suppr.			
	Fat sat.	! Position	L1.8 A28.1 F0.8
Fat sat. mode	Fat sat. Strong	! Orientation	T > C-7.3
Fat sat. mode	Strong	! Orientation ! Rotation	T > C-7.3 90.00 deg
Fat sat. mode Averaging mode	Strong Long term	! Orientation ! Rotation ! A >> P	T > C-7.3 90.00 deg 174 mm
Fat sat. mode Averaging mode Reconstruction	Strong Long term Magnitude	! Orientation ! Rotation ! A >> P ! R >> L	T > C-7.3 90.00 deg 174 mm 130 mm
Fat sat. mode Averaging mode Reconstruction Measurements	Strong Long term Magnitude 5	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	T > C-7.3 90.00 deg 174 mm
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR	Strong Long term Magnitude 5 0 ms	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio	T > C-7.3 90.00 deg 174 mm 130 mm
Fat sat. mode Averaging mode Reconstruction Measurements	Strong Long term Magnitude 5	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	T > C-7.3 90.00 deg 174 mm 130 mm
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR	Strong Long term Magnitude 5 0 ms	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series	Strong Long term Magnitude 5 0 ms Off	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode	Strong Long term Magnitude 5 0 ms Off PICORE Q2T	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode Inversion time 1 Saturation stop time	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None
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	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off
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	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off On 3D
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	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Linear
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	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100 cm/s	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off On 3D Linear 1
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	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Inear 1 1050 Hz/Px
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 Phase partial Fourier	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100 cm/s	! 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	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Inear 1 1050 Hz/Px Off
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 Phase partial Fourier Slice partial Fourier	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! Orientation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Inear 1 1050 Hz/Px
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 Phase partial Fourier	Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100 cm/s	! 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	T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Inear 1 1050 Hz/Px Off

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 48 ms 748704 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 2

\\U;	SER\Renz	coHuber\Anna_trt\20210412	_DEN\VASO_151	_G8_C2_test	
TA: 0:31	PAT: 8	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	

Properties Prio Recon Before measurement	Off	PAT mode Accel. factor PE Ref. lines PE	GRAPPA 8 96
After measurement Load to viewer	On	Accel. factor 3D Ref. lines 3D	1 24
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	.	Hamming	Off
Auto open inline display	Off		3 11
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
Start measurements	Sirigie	•	25.0 mm
Routine		Gap Thickness	25.0 mm
Slab group 1			
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9	System	
Phase enc. dir.	A >> P	V32	Off
Rotation	0.00 deg	A32	On
Phase oversampling	0 %	A32	On
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F >> H
TR	6239.20 ms	Save uncombined	Off
TE	16 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
Concatenations	1	Auto Coil Select	Default
Filter	None		
Coil elements	A32	Shim mode	Standard
Contrast		Adjust with body coil	Off
Perfusion mode	SS-SI VASO	Confirm freq. adjustment	Off
TI2	100 ms	Assume Silicone	Off
Ti1	50 ms	! Ref. amplitude 1H	225.000 V
Tils	50 ms	Adjustment Tolerance	Auto
Flip angle	4 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	L1.8 A28.1 F0.8
Fat sat. mode	Strong	! Orientation	T > C-7.3
		! Rotation	90.00 deg
Averaging mode	Long term	! A >> P	174 mm
Reconstruction	Magnitude	! R >> L	130 mm
Measurements	5	! F >> H	107 mm
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Perfusion mode	PICORE Q2T	•	
Inversion time 1	50 ms	BOLD	
Saturation stop time	50 ms	Motion correction	Off
Inversion time 2	100.0 ms	Spatial filter	Off
Flow limit		Sequence	
LIOM IIIIII	100.0 cm/s	Introduction	On
Resolution		Dimension	3D
Base resolution	170	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1 1050 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	1.12 ms
Interpolation		Lono spacing	1.14 1110
	Off		

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 44 ms 748704 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 2

	\\USER\Ren	zoHuber\Anna_trt\20210412 ₋	_DEN\VASO_151	_G8_C4_test	
TA: 0:	31 PAT: 8	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	

.		PAT mode	GRAPPA
Properties	0"	Accel. factor PE	8
Prio Recon	Off	Ref. lines PE	96
Before measurement After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
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	Oll	Hamming	Off
Auto open inline display	Off	1	Oll
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	3 -	Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	ш
Dist. factor	50 %	Table position	H 0 mm
Position	L2.3 A24.2 H3.5	Table position	Off
Orientation	T > C-11.9	Inline Composing	Oli
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	V32	Off
Phase oversampling	0.00 deg 0 %	A32	On
Slice oversampling	0.0 %		EN
Slices per slab	120	Positioning mode	FIX
FoV read	138.7 mm	MSMA	S-C-T
FoV phase	132.9 %	Sagittal	R >> L
Slice thickness	0.89 mm	Coronal	A >> P
TR	6239.20 ms	Transversal	F >> H
TE	16 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Sum of Squares
Concatenations	1	AutoAlign	Head > Brain
		I Auto Coil Soloot	Default
	None	Auto Coil Select	Delault
Filter	None		
Filter Coil elements	None A32	Shim mode	Standard Off
Filter Coil elements Contrast	A32	Shim mode Adjust with body coil	Standard Off
Filter Coil elements Contrast Perfusion mode	A32 SS-SI VASO	Shim mode	Standard
Filter Coil elements Contrast Perfusion mode TI2	SS-SI VASO 100 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone	Standard Off Off Off
Filter Coil elements Contrast Perfusion mode TI2 TI1	SS-SI VASO 100 ms 50 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H	Standard Off Off Off 225.000 V
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s	SS-SI VASO 100 ms 50 ms 50 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance	Standard Off Off Off
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle	SS-SI VASO 100 ms 50 ms 50 ms 4 deg	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H	Standard Off Off Off 225.000 V Auto
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr.	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat.	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume	Standard Off Off Off 225.000 V Auto L1.8 A28.1 F0.8
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle	SS-SI VASO 100 ms 50 ms 50 ms 4 deg	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position	Standard Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation	Standard Off Off Off 225.000 V Auto L1.8 A28.1 F0.8
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation	Standard Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	Standard Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Filter Coil elements Contrast Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode Averaging mode Reconstruction Measurements Delay in TR Multiple series Perfusion mode	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off	Shim mode Adjust with body coil Confirm freq. adjustment 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	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms	Shim mode Adjust with body coil Confirm freq. adjustment 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	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	Shim mode Adjust with body coil Confirm freq. adjustment 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	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment 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	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering	Standard Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts	Standard Off Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off On 3D Linear 1
Filter Coil elements Contrast 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 Slice resolution	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	Standard Off Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off Off Off Off Off Off O
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	Standard Off Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off Off Off Off Off Off O
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth	Standard Off Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off Off Off Off Off Off O
Filter Coil elements Contrast 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	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong Long term Magnitude 5 0 ms Off PICORE Q2T 50 ms 100.0 ms 100.0 cm/s	Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! Rotation ! R >> P ! R >> L ! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	Standard Off Off Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm None Off Off Off Off Off Off Off Off Off O

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 44 ms 748704 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 4

\\USER\F	_	0412_DEN\VASO_151_G9_	C3_PF_test
TA: 0:26 PA	AT: 9 Voxel size: 0.8×0.8×	0.9 mm Rel. SNR: 1.00 US	SER: VASO_151
Properties		PAT mode	GRAPPA
Prio Recon	Off	Accel. factor PE	9
Before measurement	O.I.	Ref. lines PE	108
After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
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		Hamming	Off
Auto open inline display	Off	Geometry	
Start measurement without	On	Multi-slice mode	Interleaved
further preparation		Series	Ascending
Wait for user to start	Off	Selles	Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9		.
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	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F >> H
TR	5102.90 ms	Save uncombined	Off
TE	13 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
Concatenations	1	Auto Coil Select	Default
Filter	None	Shim mada	Standard
Coil elements	A32	Shim mode Adjust with body coil	Standard Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SLV/ASO	— Comminmed, adjustinent	OII

Co	il elements	A32
Contra	ast	
_	rfusion mode	SS-SI VASO
TI2	='	100 ms
TI1		50 ms
TI1	*	50 ms
	o angle	4 deg
	t suppr.	Fat sat.
Fat	t sat. mode	Strong
Ave	eraging mode	Long term
	construction	Magnitude
Me	asurements	5
De	lay in TR	0 ms
Mu	Itiple series	Off
Pei	rfusion mode	PICORE Q2T
	ersion time 1	50 ms
Sat	turation stop time	50 ms
	ersion time 2	100.0 ms
Flo	w limit	100 cm/s
Resol	ution	
Bas	se resolution	170
Pha	ase resolution	100 %

100 %

6/8

6/8

Off

Slice resolution

Interpolation

Phase partial Fourier

Slice partial Fourier

Special sat. Gap Thickness	Parallel F 25.0 mm 100 mm
Table position Table position Inline Composing	H 0 mm Off
System	
V32	Off
A32	On
Positioning mode MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select	FIX S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default
Shim mode Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation ! A >> P ! R >> L ! F >> H	Standard Off Off Off Off 150.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg 174 mm 130 mm 107 mm
Physio	
1st Signal/Mode	None
BOLD	
Motion correction	Off
Spatial filter	Off
Sequence	
Introduction	On
Dimension Peordering	3D Linear
RANKARINA	i indat

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	130 9 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 39 ms 459261 ms 90 local Flash 170 100 Hz/px 7000 us 5 deg On 0 3

	\\USER\Renz	zoHuber\Anna_trt\20210412_	_DEN\VASO_151_	_G9_C3_test
TA: 0	:26 PAT: 9	Voxel size: 0.8x0.8x0.9 mm	Rel. SNR: 1.00	USER: VASO_151

Prior Recon Def Before measurement After measurement Association A	Properties		PAT mode	GRAPPA
Before measurement		Off		
After measurement Load to viewer On Inline movie Or Ref. lines 3D		Oli		
Load to viewer On				-
Inline movie		On		= '
Auto store images			Reference scan mode	Separate
Load to stamp segments			Prescan Normalize	Off
Load images to graphic segments Auto open inline display Start measurement without turther preparation Wall for user to start Start measurements Single Special sat. Parallel F Series Ascending Series Sate measurements Single Special sat. Parallel F Series Ascending S				_
Segments				
Auto open inline display Start measurement without turther preparation Walt for user to start Start measurements Single Series Ascending				_
Start measurement without properties of turther preparation Wait for user to start Off Series Ascending Series Series Ascending Series Ascending Series Ascending Series Ascending Series Ascending Series Series Ascending Series S		Off		
Main for user to start Series Ascending		On		
Visit of Octoor Visit of O	further preparation			
Routine	Wait for user to start	Off	Series	Ascending
Routine	Start measurements	single	Special sat.	Parallel F
Slab group 1	Poutine		•	25.0 mm
Slabs	* * * * *		Thickness	100 mm
Dist factor		1	Table position	
Position				
Orientation				•
Phase enc. dir. A >> P Rotation 0.00 deg Phase oversampling 0.0 % Silices oversampling 0.0 % Silices oversampling 0.0 % Silices per slab 120 MSMA S - C - T Silices per slab 120 MSMA S - C - T Silices per slab 120 MSMA S - C - T Silices thickness 132.9 % Cornal A >> P Transversal R >> L Cornal A >> P Transversal A > P Transversal A Coil Combine Mode Sum of Squares Auto Align Head > Brain Auto Coil Select Default MI MI MI MI MI MI MI M			I mime Composing	OII
Rotation				
Phase oversampling			V32	Off
Slice oversampling			A32	On
Silices per slab			Desitioning mode	FIV
FoV read				
FoV phase				
Slice thickness 0.89 mm Transversal F >> H				
TR	•			
TE	TR	5102.90 ms		
Averages		13 ms		
Concatenations 1 Auto Coil Select Default Filter None Standard Coil elements A32 Shim mode Standard Contrast Contrast Shim mode Standard Perfusion mode SS-SI VASO Adjust with body coil Off T12 100 ms I. Ref. amplitude 1H 150.000 V T11 50 ms Adjust volume I. Ref. amplitude 1H 150.000 V File angle 4 deg I. Position L1.8 A28.1 F0.8 I. Position I. Position I. Position <t< td=""><td>Averages</td><td>1</td><td></td><td>•</td></t<>	Averages	1		•
Filter		1		
Adjust with body coil	Filter	None		
Perfusion mode	Coil elements	A32		Standard
Perfusion mode	Contract			
T12		CC CL V/ACO		
T11				_
Titls				150.000 V
Flip angle				Auto
Fat suppr. Fat sat. ! Orientation T > C-7.3 Fat sat. mode Strong ! Rotation 90.00 deg Averaging mode Long term ! Rotation 90.00 deg Averaging mode Long term ! Rotation 90.00 deg I A >> P 174 mm 174 mm Reconstruction Magnitude ! Rotation 130 mm I Rotation 130 mm 170 mm Delay in TR 0 ms Physio Multiple series Off 1st Signal/Mode None Perfusion mode PICORE Q2T BOLD Motion correction Off Inversion time 1 50 ms BOLD Motion correction Off Inversion time 2 100.0 ms Sequence Introduction On Resolution 170 Reordering Linear Phase resolution 100 % Reordering Linear Slice resolution 100 % Bandwidth 1050 Hz/Px Phase partial Fourier 6/8 Free echo spacing Off <td></td> <td></td> <td></td> <td></td>				
Fat sat. mode				
Averaging mode				
Reconstruction Magnitude Reconstruction Magnitude Measurements 5 Delay in TR 0 ms Multiple series Off Perfusion mode Inversion time 1 50 ms Inversion time 2 100.0 ms Flow limit 100 cm/s Resolution Resolution Resolution Resolution Base resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Magnitude I R >> L 130 mm Physio None Physio Seturation stop time Inst Signal/Mode None Resolution Motion correction Off Spatial filter Off Sequence Introduction On Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Slice partial Fourier Off Interpolation Off	i at sat. IIIOue			•
Perfusion mode	Averaging mode	•		
Delay in TR 0 ms		Magnitude		
Multiple series Off Perfusion mode PICORE Q2T Inversion time 1 Saturation stop time Inversion time 2 Flow limit Pease resolution Phase resolution Slice resolution Phase partial Fourier Slice partial Fourier Slice partial Fourier Interpolation Off 1st Signal/Mode None BOLD Motion correction Spatial filter Off Spatial filter Off Spatial filter Off Spatial filter Off Sequence Introduction Dimension Reordering Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Contrasts Free echo spacing Interpolation Off Spatial Fourier Off Sequence Introduction Dimension Spatial Fourier Sequence Introduction On Dimension Spatial Fourier Spatial Fourier Spatial Fourier Off Spatial Fourier		_	!	10/ mm
Multiple series Off Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Base resolution Phase resolution Slice resolution Phase partial Fourier Slice partial Fourier Interpolation Off Ist Signal/Mode None BOLD Motion correction Spatial filter Off Spatial filter Off Spatial filter Off Spatial filter Off Sequence Introduction Dimension Reordering Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms			Physio	
Perfusion mode	Multiple series	Off	•	None
Inversion time 1 50 ms Saturation stop time 50 ms Inversion time 2 100.0 ms Flow limit 100 cm/s Resolution Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Motion correction Off Spatial filter Off Motion correction Off Spatial filter Off Fequence Introduction On Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms	Perfusion mode	PICORE O2T		
Saturation stop time 50 ms				0"
Inversion time 2 100.0 ms Flow limit 100 cm/s Resolution Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Sequence Introduction On Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms				_
Flow limit 100 cm/s Resolution Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Introduction On Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms	•		Spatial filter	Oπ
Resolution Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Introduction On Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms			Sequence	
Resolution Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Dimension 3D Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms	į.	100 011110		On
Base resolution 170 Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Reordering Linear Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms				
Phase resolution 100 % Slice resolution 100 % Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Contrasts 1 Bandwidth 1050 Hz/Px Free echo spacing Off Echo spacing 1.12 ms				
Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Control of the			•	
Phase partial Fourier 6/8 Slice partial Fourier Off Interpolation Off Free echo spacing Off Echo spacing 1.12 ms			Bandwidth	1050 Hz/Px
Slice partial Fourier Off Echo spacing 1.12 ms				Off
Interpolation Off Interpolation				1.12 ms
EPITACIOF 226	Interpolation	Off		226
			EFITACIOI	220

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	130 9 in deg 1 On Off On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 39 ms 612348 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 3

	\\USE	R\Renzo	Huber\Anna_trt\20210412_	_DEN\VASO_151_	_G3_tapping	
T	A: 16:12	PAT: 3	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	
			i p	AT mode	GRAPPA	

Properties		PAT mode	GRAPPA
Prio Recon	Off	Accel. factor PE	3
Before measurement		Ref. lines PE	45
After measurement		Accel. factor 3D	1
Load to viewer	On	Ref. lines 3D	24
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		Hamming	Off
Auto open inline display	Off	Coometry	
Start measurement without	On	Geometry Multi-slice mode	Interlegued
further preparation		Series	Interleaved Ascending
Wait for user to start	Off		Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9		3
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	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F >> H
TR	9623.30 ms	Save uncombined	Off
TE	25 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	Head > Brain
Concatenations	1	Auto Coil Select	Default
Filter	None		0
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	100 ms	! Ref. amplitude 1H	225.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	Auto
Flip angle	4 deg	! Position	L1.8 A28.1 F0.8
Fat suppr.	Fat sat.	! Orientation	T > C-7.3
Fat sat. mode	Strong	! Rotation	90.00 deg
Averaging mode	Long term	! A >> P	174 mm
Averaging mode Reconstruction	Long term Magnitude	! R >> L	130 mm
Measurements	101	! F >> H	107 mm
Delay in TR	0 ms	Dharaia	
Multiple series	Off	Physio	
·····		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	100.0 ms	· ·	
Flow limit	100 cm/s	Sequence	On
Resolution		Introduction	On 3D
Base resolution	170	Dimension Reordering	Linear
Phase resolution	100 %	Reordering Contrasts	Linear 1
Slice resolution	100 %	Bandwidth	1 1050 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	1.06 ms
Interpolation	Off		
		EPI factor	226

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 77 ms 1154796 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg Off

\\USER\	RenzoHu	ber\Anna_trt\20210412_DE i	NVASO_151_ref	_G6_C2_tapping	
TA: 16:42	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	

Properties Prio Recon Before measurement After measurement Load to viewer Inline movie	Off On Off	PAT mode Accel. factor PE Ref. lines PE Accel. factor 3D Ref. lines 3D Reference scan mode	GRAPPA 6 90 1 24 Separate
Auto store images Load to stamp segments Load images to graphic segments Auto open inline display	On Off Off	Prescan Normalize Raw filter Elliptical filter Hamming	Off Off Off Off
Start measurement without further preparation	On	Geometry Multi-slice mode Series	Interleaved Ascending
Wait for user to start Start measurements	Off single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs Dist. factor Position Orientation	1 50 % L2.3 A24.2 H3.5 T > C-11.9	Table position Table position Inline Composing	H 0 mm Off
Phase enc. dir.	A >> P	System	
Rotation Phase oversampling	0.00 deg 0 %	V32 A32	Off On
Slice oversampling Slices per slab FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter	0.0 % 120 138.7 mm 132.9 % 0.89 mm 6221.30 ms 16 ms 1	Positioning mode MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select	FIX S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default
Coil elements Contrast	A32	Shim mode Adjust with body coil Confirm freq. adjustment	Standard Off On
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation	Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg
Averaging mode Reconstruction Measurements Delay in TR	Long term Magnitude 161 0 ms	! A >> P ! R >> L ! F >> H Physio	174 mm 130 mm 107 mm
Multiple series	Off	1st Signal/Mode	None
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	BOLD Motion correction Spatial filter Sequence	Off Off
Resolution		Introduction	On
Base resolution Phase resolution Slice resolution Phase partial Fourier Slice partial Fourier	170 100 % 100 % 6/8 Off	Dimension Reordering Contrasts Bandwidth Free echo spacing Echo spacing	3D Linear 1 1050 Hz/Px Off 1.1 ms
Interpolation	Off	EPI factor	226

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 48 ms 715884 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 2

\\USE	R∖Renzo⊦	luber\Anna_trt\20210412_D	EN\VASO_151_0	G9_C3_tapping	
TA: 17:57	PAT: 9	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_151	

Properties Prio Recon Before measurement After measurement	Off	PAT mode Accel. factor PE Ref. lines PE Accel. factor 3D Ref. lines 3D	GRAPPA 9 108 1 24
Load to viewer	On		— ·
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		Hamming	Off
Auto open inline display	Off	Coometry	
Start measurement without	On	Geometry	Interleaved
further preparation		Multi-slice mode Series	
Wait for user to start	Off	Selles	Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	Н
Dist. factor	50 %	Table position Table position	0 mm
Position	L2.3 A24.2 H3.5	Inline Composing	Off
Orientation	T > C-11.9	1	OII
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	120	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.89 mm	Transversal	F>> H
TR	5102.90 ms	Save uncombined	Off
TE	13 ms		_
Averages	1	Coil Combine Mode	Sum of Squares
Concatenations	1	Auto Align	Head > Brain
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
1		Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	100 ms	! Ref. amplitude 1H	190.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	4 deg	! Position	L1.8 A28.1 F0.8
Fat suppr.	Fat sat.	! Orientation	T > C-7.3
Fat sat. mode	Strong	! Rotation	90.00 deg
Averaging mode	Long term	! A >> P	174 mm
Reconstruction	Magnitude	! R >> L	130 mm
Measurements	211	! F >> H	107 mm
Delay in TR	0 ms	Dhyaia	
Multiple series	Off	Physio	Nege
	-	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	100.0 ms	1 .	
Flow limit	100 cm/s	Sequence	0.5
Resolution		Introduction	On
Base resolution	170	Dimension	3D
Phase resolution	100 %	Reordering	Linear
Slice resolution	100 %	Contrasts	1 1050 H=/D::
Phase partial Fourier	6/8	Bandwidth	1050 Hz/Px
Slice partial Fourier	Off	Free echo spacing	Off
Interpolation	Off	Echo spacing	1.12 ms
interpolation	••••••••••••••••••••••••••••••••••••••	EPI factor	226

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	130 9 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 39 ms 581676 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0 3

\\USE	R\Renzol	Huber\Anna_trt\20210412_D	EN\VASO_151_0	98_C4_tapping	
TA: 17:47	PAT: 8	Voxel size: 0.8x0.8x0.9 mm	Rel. SNR: 1.00	USER: VASO 151	

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	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	GRAPPA 8 96 1 24 Separate Off Off Off Off
further preparation Wait for user to start	Off	Multi-slice mode Series	Interleaved 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 % L2.3 A24.2 H3.5 T > C-11.9	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 Slices per slab FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter	0.0 % 120 138.7 mm 132.9 % 0.89 mm 6239.20 ms 16 ms 1	Positioning mode MSMA Sagittal Coronal Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select	FIX S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default
Coil elements	A32	Shim mode	Standard
Perfusion mode TI2 TI1 TI1s Flip angle Fat suppr. Fat sat. mode	SS-SI VASO 100 ms 50 ms 50 ms 4 deg Fat sat. Strong	Adjust with body coil Confirm freq. adjustment Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume ! Position ! Orientation ! Rotation	Off Off Off 225.000 V Auto L1.8 A28.1 F0.8 T > C-7.3 90.00 deg
Averaging mode Reconstruction Measurements Delay in TR Multiple series	Long term Magnitude 171 0 ms Off	! A >> P ! R >> L ! F >> H Physio 1st Signal/Mode	174 mm 130 mm 107 mm
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	PICORE Q2T 50 ms 50 ms 100.0 ms 100.0 cm/s	BOLD Motion correction Spatial filter Sequence	Off Off
Resolution		Introduction Dimension	On 3D
Base resolution Phase resolution Slice resolution Phase partial Fourier Slice partial Fourier Interpolation	170 100 % 100 % 6/8 Off Off	Reordering Contrasts Bandwidth Free echo spacing Echo spacing	Linear 1 1050 Hz/Px Off 1.12 ms
•		1	- -

RF pulse type Gradient mode Excitation RF spoiling	Normal Fast 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	110 10 in deg 1 On Off On 2.00 3 s 0.00 mT/m*ms 1200 us 25.0 44 ms 748704 ms 120 local Flash 170 100 Hz/px 7000 us 5 deg On 0

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