\\USER\RenzoHuber\KENSHU\20211011\_KEN\_movie2\Checklist\_ok

		x1.0x5.0 mm Rel. SNR: 1.00	SIEMENS: tfl
Properties		PAT mode	None
Prio Recon	Off	Image Filter	
Before measurement		Image Filter	Off
After measurement		Distortion Corr.	Off
Load to viewer	On	Prescan Normalize	Off
Inline movie	Off	Normalize	Off
Auto store images	On	B1 filter	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	O.I.	Geometry	
Auto open inline display	Off	Multi-slice mode	Cingle shot
Start measurement without	Off		Single shot
further preparation	Oli	Series	Interleaved
Wait for user to start	Off		
Start measurements		Table position	Н
Start measurements	single	Table position	0 mm
Routine		Inline Composing	Off
Slice group 1		System	
Slices	9	V32	Off
Dist. factor	80 %	N32 A32	On
Position	L0.0 A27.3 F14.3	A32	OII
Orientation	Sagittal	Positioning mode	REF
Phase enc. dir.	A >> P	MSMA	S - C - T
Rotation	0.00 deg	Sagittal	R >> L
Slice group 2	0.00 deg	Coronal	A >> P
Slices	5	Transversal	F >> H
Dist. factor	100 %	Save uncombined	Off
Position	R1.1 A28.9 H44.2	Coil Combine Mode	Adaptive Combine
		AutoAlign	
Orientation	Transversal	Auto Coil Select	Default
Phase enc. dir.	A >> P	Auto Coil Select	Delault
Rotation	0.00 deg	Shim mode	Tune up
Slice group 3	_	Adjust with body coil	Off
Slices	7	Confirm freq. adjustment	Off
Dist. factor	50 %	Assume Silicone	Off
Position	R1.5 A28.2 F10.0	! Ref. amplitude 1H	220.000 V
Orientation	Coronal	Adjustment Tolerance	Auto
Phase enc. dir.	R >> L	Adjust volume	riate
Rotation	0.00 deg	! Position	L0.0 A23.4 F1.3
Phase oversampling	0 %	! Orientation	Transversal
FoV read	200 mm	! Rotation	0.00 deg
FoV phase	100.0 %	! Rotation	350 mm
Slice thickness	5.0 mm	! K >> L ! A >> P	213 mm
TR	3000 ms		
TE	2.24 ms	! F >> H	189 mm
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	None		
Coil elements	A32	Dark blood	Off
Con cioniona	7.02	Poor control	Off
Contrast		Resp. control	Oil
Magn. preparation	Slice-sel. IR	Inline	
TI	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
	1	Std-Dev-Time	Off
Averaging mode	Long term	MIP-Sag	Off
Reconstruction	Magnitude	MIP-Cor	Off
Measurements	1	MIP-Tra	Off
Multiple series	Each measurement		
Resolution		MIP-Time	Off
	102	Save original images	On
Base resolution	192	1	
Phase resolution	100 % Off	Sequence	
Phase partial Fourier	UTT	Introduction	On

Introduction

On

Phase partial Fourier

Interpolation

Off

Off

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sel.

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TA: 15:46	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_160	

Properties		PAT mode	GRAPPA
Prio Recon	Off	Accel. factor PE Ref. lines PE	6 90
Before measurement		Accel. factor 3D	90 1
After measurement		Ref. lines 3D	24
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		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		
Start measurements	single	Special sat.	Parallel F
Routine		Gap Thickness	25.0 mm 100 mm
Slab group 1			
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	R3.9 A25.3 H16.4	Inline Composing	Off
Orientation	Transversal	System	
Phase enc. dir.	A >> P	V32	Off
Rotation	0.00 deg	A32	On
Phase oversampling	0 %		
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab FoV read	112 138.7 mm	MSMA	S - C - T
FoV read FoV phase	132.9 %	Sagittal	R >> L
Slice thickness	0.87 mm	Coronal	A >> P
TR	5168.90 ms	Transversal	F >> H
TE	18 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Sum of Squares
Concatenations	1	AutoAlign	<del></del>
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
1	7102	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	100 ms	! Ref. amplitude 1H	225.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	40 deg	! Position	R1.9 A24.9 H19.3
Fat suppr.	Fat sat.	! Orientation	T > C-1.8
Fat sat. mode	Weak	! Rotation	0.00 deg
Averaging mode	Long term	! R >> L	137 mm
Reconstruction	Magnitude	! A >> P	177 mm
Measurements	183	! F >> H	94 mm
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
	DICODE COT	1	HOUR
Perfusion mode	PICORE Q2T	BOLD	<u> </u>
Inversion time 1	50 ms	Motion correction	Off
Saturation stop time	50 ms	Spatial filter	Off
Inversion time 2	100.0 ms	Sequence	
Flow limit	100 cm/s	Introduction	On
Resolution		Dimension	3D
Base resolution	170	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	980 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Echo spacing	1.16 ms
Interpolation	Off		
		EPI factor	226

Ampl 150 MAGEC FA 9 in deg ph.skip 4 Robert (the one) 1 MAGEC SS-SI? On NORDIC On log physio files On	RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On
FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA Use CAIPI shift kz CAIPI shift ky  1.00 3 s 2 shim 0.00 mT/m*ms 3 s 2 560 us 8 No	MAGEC FA ph.skip 4 Robert (the one) MAGEC SS-SI? NORDIC log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI CAIPI shift kz	9 in deg 1 On On On On 1.00 3 s 0.00 mT/m*ms 2560 us 8.0 45 ms 578916 ms 112 3 local Flash 170 103 Hz/px 6100 us 5 deg On 0

	\\USER\Renz	zoHuber\k	(ENSHU\20211011_KEN_m	ovie2\VASO160_	G61_nofatsat_movie2	
	TA: 15:46	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_160	
			P/	AT mode	GRAPPA	

Properties		PAT mode	GRAPPA
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	<b></b>	Hamming	Off
Auto open inline display	Off		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
1	5g.0	Gap	25.0 mm
Routine		Thickness	100 mm
Slab group 1			
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	R3.9 A25.3 H16.4	Inline Composing	Off
Orientation	Transversal	System	
Phase enc. dir.	A >> P	V32	Off
Rotation	0.00 deg	A32	On
Phase oversampling	0 %	A32	
Slice oversampling	0.0 %	Positioning mode	FIX
Slices per slab	112	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.87 mm	Transversal	F >> H
TR	5168.90 ms	Save uncombined	Off
TE	18 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	
Concatenations	1	Auto Coil Select	Default
Filter	None	China manda	Ctondoud
Coil elements	A32	Shim mode	Standard Off
Contrast		Adjust with body coil	_
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		I Adiustifietti Loteratice	Auto
	50 ms		7.000
		Adjust volume	
Flip angle	50 ms 40 deg Fat sat.	Adjust volume ! Position	R1.9 A24.9 H19.3
	40 deg	Adjust volume ! Position ! Orientation	R1.9 A24.9 H19.3 T > C-1.8
Flip angle Fat suppr. Fat sat. mode	40 deg Fat sat. Weak	Adjust volume ! Position ! Orientation ! Rotation	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg
Flip angle Fat suppr. Fat sat. mode  Averaging mode	40 deg Fat sat. Weak Long term	Adjust volume ! Position ! Orientation ! Rotation ! R >> L	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction	40 deg Fat sat. Weak Long term Magnitude	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements	40 deg Fat sat. Weak  Long term Magnitude 183	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements	40 deg Fat sat. Weak  Long term Magnitude 183	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR Multiple series	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR Multiple series  Perfusion mode	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR Multiple series  Perfusion mode Inversion time 1	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm
Flip angle Fat suppr. Fat sat. mode  Averaging mode Reconstruction Measurements Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm None
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off  On 3D Linear 1
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off Off  On 3D Linear 1 980 Hz/Px
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off  On 3D Linear 1
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 Phase partial Fourier Slice partial Fourier	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off Off  On 3D Linear 1 980 Hz/Px
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	40 deg Fat sat. Weak  Long term Magnitude 183 0 ms Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	Adjust volume ! Position ! Orientation ! Rotation ! R >> L ! A >> P ! F >> H  Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	R1.9 A24.9 H19.3 T > C-1.8 0.00 deg 137 mm 177 mm 94 mm  None  Off Off Off Off Off Off Off Off Off O

Ampl 150 MAGEC FA 9 in deg ph.skip 4 Robert (the one) 1 MAGEC SS-SI? On NORDIC On log physio files On	RF pulse type Gradient mode Excitation RF spoiling	Normal Fast Slab-sel. On
FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA Use CAIPI shift kz CAIPI shift ky  1.00 3 s 2 shim 0.00 mT/m*ms 3 s 2 560 us 8 No	MAGEC FA ph.skip 4 Robert (the one) MAGEC SS-SI? NORDIC log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI CAIPI shift kz	9 in deg 1 On On On On 1.00 3 s 0.00 mT/m*ms 2560 us 8.0 45 ms 578916 ms 112 3 local Flash 170 103 Hz/px 6100 us 5 deg On 0

\\USER\RenzoHuber\KENSHU\20211011_KEN_movie2\VASO160_G61_nofatsat_movie3						
	TA: 15:46	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_160	
Properties				AT 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
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	<b>.</b>	Hamming	Off
Auto open inline display	Off		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	3 -	Gap	25.0 mm
Routine		Thickness	100 mm
Slab group 1			
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	R3.9 A25.3 H16.4	Inline Composing	Off
Orientation	Transversal	System	
Phase enc. dir. Rotation	A >> P	V32	Off
	0.00 deg 0 %	A32	On
Phase oversampling	0.0 %		
Slice oversampling	0.0 % 112	Positioning mode	FIX
Slices per slab FoV read	138.7 mm	MSMA	S - C - T
		Sagittal	R >> L
FoV phase Slice thickness	132.9 %	Coronal	A >> P
TR	0.87 mm	Transversal	F >> H
TE	5168.90 ms 18 ms	Save uncombined	Off
	10 1115	Coil Combine Mode	Sum of Squares
Averages Concatenations	1	AutoAlign	
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
Con elements	A32	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	100 ms	! Ref. amplitude 1H	225.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	40 deg	! Position	R1.9 A24.9 H19.3
Fat suppr.	Fat sat.	! Orientation	T > C-1.8
Fat sat. mode	Weak	! Rotation	0.00 deg
Averaging mode	Long term	! R >> L	137 mm
Reconstruction	Magnitude	! A >> P	177 mm
Measurements	183	! F >> H	94 mm
Delay in TR	0 ms	Dhysia	
Multiple series			
		Physio	N
	Off	1st Signal/Mode	None
Perfusion mode	Off PICORE Q2T		None
Perfusion mode Inversion time 1	Off PICORE Q2T 50 ms	1st Signal/Mode	None
Perfusion mode Inversion time 1 Saturation stop time	Off PICORE Q2T 50 ms 50 ms	1st Signal/Mode BOLD	
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	Off PICORE Q2T 50 ms 50 ms 100.0 ms	1st Signal/Mode  BOLD  Motion correction Spatial filter	Off
Perfusion mode Inversion time 1 Saturation stop time	Off PICORE Q2T 50 ms 50 ms	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence	Off Off
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	Off PICORE Q2T 50 ms 50 ms 100.0 ms	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction	Off Off
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension	Off Off On 3D
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution	Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering	Off Off On 3D Linear
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution	Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts	Off Off On 3D Linear
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit  Resolution Base resolution Phase resolution Slice resolution	Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	Off Off On 3D Linear 1 980 Hz/Px
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit  Resolution Base resolution Phase resolution Slice resolution Phase partial Fourier	Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	Off Off On 3D Linear 1 980 Hz/Px Off
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	Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	Off Off On 3D Linear 1 980 Hz/Px
Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit Resolution Base resolution Phase resolution Slice resolution Phase partial Fourier	Off  PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s  170 100 % 100 % 6/8 Off	1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	Off Off On 3D Linear 1 980 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? NORDIC log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI CAIPI shift kz CAIPI shift ky	150 9 in deg 1 On On On On 1.00 3 s 0.00 mT/m*ms 2560 us 8.0 45 ms 578916 ms 112 3 local Flash 170 103 Hz/px 6100 us 5 deg On 0 3
- · <i>J</i>	

\\USER\Renz	zoHuber\K	(ENSHU\20211011_KEN_m	ovie2\VASO160_	G61_nofatsat_movie4
TA: 15:46	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_160

Properties		PAT mode Accel, factor PE	GRAPPA
Prio Recon	Off	Ref. lines PE	6 90
Before measurement		Accel. factor 3D	1
After measurement		Ref. lines 3D	24
Load to viewer	On	Reference scan mode	Separate
Inline movie	Off		Geparate
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	Coornettu	
Start measurement without	On	Geometry	lata da accad
further preparation		Multi-slice mode	Interleaved
Wait for user to start	Off	Series	Ascending
Start measurements	single	Special sat.	Parallel F
Douting	Ç	Gap	25.0 mm
Routine Slab group 1		Thickness	100 mm
Slabs	1	Table position	11
Dist. factor	50 %	Table position	H
Position	R3.9 A25.3 H16.4	Table position	0 mm
Orientation	Transversal	Inline Composing	Off
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	V32	Off
	0.00 deg 0 %	A32	On
Phase oversampling	0.0 %		
Slice oversampling		Positioning mode	FIX
Slices per slab	112	MSMA	S - C - T
FoV read	138.7 mm	Sagittal	R >> L
FoV phase	132.9 %	Coronal	A >> P
Slice thickness	0.87 mm	Transversal	F >> H
TR	5168.90 ms	Save uncombined	Off
TE	18 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
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	40 deg	Adjust volume	
Fat suppr.	Fat sat.	! Position	R1.9 A24.9 H19.3
Fat sat, mode	Weak	! Orientation	T > C-1.8
	·····	! Rotation	0.00 deg
Averaging mode	Long term	! R >> L	137 mm
Reconstruction	-	! A >> P	177 mm
	Magnitude		
Measurements	Magnitude 183	! F >> H	94 mm
		! F >> H	
Delay in TR	183	! F >> H Physio	94 mm
Delay in TR Multiple series	183 0 ms Off	! F >> H Physio 1st Signal/Mode	
Delay in TR Multiple series Perfusion mode	183 0 ms Off PICORE Q2T	! F >> H Physio	94 mm
Delay in TR Multiple series Perfusion mode Inversion time 1	183 0 ms Off PICORE Q2T 50 ms	! F >> H Physio 1st Signal/Mode	94 mm
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time	183 0 ms Off PICORE Q2T 50 ms 50 ms	! F >> H Physio 1st Signal/Mode BOLD	94 mm None
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time Inversion time 2	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter	94 mm  None  Off
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time	183 0 ms Off PICORE Q2T 50 ms 50 ms	! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence	94 mm  None  Off Off
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms	! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction	94 mm  None  Off Off Off
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit  Resolution	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio 1st Signal/Mode BOLD Motion correction Spatial filter Sequence Introduction Dimension	94 mm  None  Off Off Off 3D
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit  Resolution  Base resolution	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering	94 mm  None  Off Off Off  On 3D Linear
Delay in TR Multiple series  Perfusion mode Inversion time 1 Saturation stop time Inversion time 2 Flow limit  Resolution  Base resolution Phase resolution	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts	94 mm  None  Off Off Off  Interval 1
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	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	94 mm  None  Off Off Off  Interval 1  980 Hz/Px
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	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	94 mm  None  Off Off Off  On 3D Linear 1 980 Hz/Px Off
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	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s 170 100 % 100 % 6/8 Off	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth	94 mm  None  Off Off On 3D Linear 1 980 Hz/Px
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	183 0 ms Off PICORE Q2T 50 ms 50 ms 100.0 ms 100 cm/s	! F >> H Physio  1st Signal/Mode  BOLD  Motion correction Spatial filter  Sequence Introduction Dimension Reordering Contrasts Bandwidth Free echo spacing	94 mm  None  Off Off Off  On 3D Linear 1 980 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? NORDIC log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions CAIPI scale EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI CAIPI shift kz CAIPI shift ky	150 9 in deg 1 On On On On 1.00 3 s 0.00 mT/m*ms 2560 us 8.0 45 ms 578916 ms 112 3 local Flash 170 103 Hz/px 6100 us 5 deg On 0 3
	-

\\USER\Renz	zoHuber\K	ENSHU\20211011_KEN_m	ovie2\VASO160_	G61_nofatsat_movie5	
TA: 15:46	PAT: 6	Voxel size: 0.8×0.8×0.9 mm	Rel. SNR: 1.00	USER: VASO_160	

		PAT mode	GRAPPA
Properties		Accel. factor PE	6
Prio Recon	Off	Ref. lines PE	90
Before measurement		Accel. factor 3D	1
After measurement		Ref. lines 3D	24
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		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	Series	Ascending
Start measurements	single	Special sat.	Parallel F
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table a saldon	
Dist. factor	50 %	Table position	H
Position	R3.9 A25.3 H16.4	Table position	0 mm
Orientation	Transversal	Inline Composing	Off
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	V32	Off
Phase oversampling	0.00 deg 0 %	A32	On
Slice oversampling	0.0 %		
Slices per slab	0.0 % 112	Positioning mode	FIX
FoV read	138.7 mm	MSMA	S - C - T
		Sagittal	R >> L
FoV phase Slice thickness	132.9 % 0.87 mm	Coronal	A >> P
		Transversal	F >> H
TR TE	5168.90 ms	Save uncombined	Off
	18 ms	Coil Combine Mode	Sum of Squares
Averages	1	AutoAlign	
Concatenations	l Nana	Auto Coil Select	Default
Filter	None	Shim mode	Standard
Coil elements	A32	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	100 ms	! Ref. amplitude 1H	225.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	Auto
Flip angle	40 deg	! Position	R1.9 A24.9 H19.3
Fat suppr.	Fat sat.	! Orientation	T > C-1.8
Fat sat. mode	Weak	! Rotation	0.00 deg
		! R >> L	137 mm
Averaging mode	Long term	! A >> P	177 mm
Reconstruction	Magnitude	! F >> H	94 mm
Measurements	183	1 : 1 >> 11	94 111111
Delay in TR	0 ms	Physio	
Multiple series	Off	1st Signal/Mode	None
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1	50 ms		0#
Saturation stop time	50 ms	Motion correction	Off
Inversion time 2	100.0 ms	Spatial filter	Off
Flow limit	100.0 m/s	Sequence	
į.	. 50 011/10	Introduction	On
Resolution		Dimension	3D
Base resolution	170	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	980 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off		
1 1 6 1 6	On	Ecno spacino	1.101115
Interpolation	Off	Echo spacing	1.16 ms
Interpolation		EPI factor	226

G Ex	F pulse type radient mode xcitation F spoiling	Normal Fast Slab-sel. On
M php php php php php php php php php ph	mpl AGEC FA n.skip 4 Robert (the one) AGEC SS-SI? ORDIC g physio files FT scale ummy prepscan time shim F duration F BWTP enzo: Delta TI FFECTIVE TR atPartitions AIPI scale PI phase correction AT refscan mode ashRef BaseRes ashRef BW ashRef TE ashRef FA se CAIPI AIPI shift kz AIPI shift ky	150 9 in deg 1 On On On On 1.00 3 s 0.00 mT/m*ms 2560 us 8.0 45 ms 578916 ms 112 3 local Flash 170 103 Hz/px 6100 us 5 deg On 0 3