\\USER\UserProtocols\Renzo\MOVIE_DMN\Quin_pilot_250_V1

Voxel size: 1.0×1.0×3.0 mm Rel. SNR: 1.00

SIEMENS: tfl

TA: 1:05

PAT: Off

		Interpolation	Off
Properties			-
Prio Recon	Off	PAT mode	None
Before measurement		Image Filter	Off
After measurement	0:-	Distortion Corr.	Off
Load to viewer	On O#	Prescan Normalize	Off
Inline movie	Off	Normalize	Off
Auto store images	On O"	B1 filter	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments	0"	· ·	.
Auto open inline display	Off	Geometry	
Start measurement without	Off	Multi-slice mode	Sequential
further preparation	2"	Series	Ascending
Wait for user to start	Off		
Start measurements	single	Table position	Н
Routine		Table position	0 mm
Slice group 1		Inline Composing	Off
Slices	9		
Dist. factor	20 %	System	Off
Position	R4.0 A23.3 F1.6	V32	Off
Orientation	S > C-3.6	A32	On
Phase enc. dir.	A >> P	Positioning mode	REF
Rotation	0.00 deg	MSMA	S - C - T
Slice group 2	0.00 dog	Sagittal	R >> L
Slices	5	Coronal	A >> P
Dist. factor	80 %	Transversal	F >> H
Position	L0.0 A31.9 F4.8	Save uncombined	Off
Orientation	Transversal	Coil Combine Mode	Adaptive Combine
Phase enc. dir.	A >> P	AutoAlign	
Rotation	0.00 deg	Auto Coil Select	Default
Slice group 3	0.00 deg		
Slices	7	Shim mode	Tune up
Dist. factor	7 50 %	Adjust with body coil	Off
		Confirm freq. adjustment	Off
	P2 / P21 6 F0 6		
Position	R2.4 P21.6 F0.6	Assume Silicone	Off
Position Orientation	Coronal	Assume Silicone ! Ref. amplitude 1H	Off 270.000 V
Position Orientation Phase enc. dir.	Coronal R >> L	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance	_
Position Orientation Phase enc. dir. Rotation	Coronal R >> L 0.00 deg	Assume Silicone ! Ref. amplitude 1H	270.000 V
Position Orientation Phase enc. dir. Rotation Phase oversampling	Coronal R >> L 0.00 deg 0 %	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance	270.000 V
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read	Coronal R >> L 0.00 deg 0 % 200 mm	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume	270.000 V Auto
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 %	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position	270.000 V Auto
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation	270.000 V Auto Isocenter Transversal
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr.	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None Long term	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None Long term Magnitude 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None Long term	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None Long term Magnitude 1	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series Resolution	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 O ms Slice-sel. IR 1100 ms 6 deg None None Long term Magnitude 1 Each measurement	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series Resolution Base resolution	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 0 ms Slice-sel. IR 1100 ms 6 deg None None Long term Magnitude 1 Each measurement	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O
Position Orientation Phase enc. dir. Rotation Phase oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast TD Magn. preparation TI Flip angle Fat suppr. Water suppr. Averaging mode Reconstruction Measurements Multiple series Resolution	Coronal R >> L 0.00 deg 0 % 200 mm 100.0 % 3.0 mm 3000 ms 3.22 ms 1 21 None A32 O ms Slice-sel. IR 1100 ms 6 deg None None Long term Magnitude 1 Each measurement	Assume Silicone ! Ref. amplitude 1H Adjustment Tolerance Adjust volume Position Orientation Rotation R >> L A >> P F >> H Physio 1st Signal/Mode Dark blood Resp. control Inline Subtract Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time	270.000 V Auto Isocenter Transversal 0.00 deg 350 mm 263 mm 350 mm None Off Off Off Off Off Off Off O

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

\\USER\UserProtocols\Renzo\MOVIE_DMN\epi_sms3_ip2_2mm

TA: 16:05 PAT: 2 Voxel size: 2.0×2.0×2.0 mm Rel. SNR: 1.00 USER: ep2d_bold_sms_mgh_v22

Properties		Special sat.	None
Prio Recon	Off	Table position	Н
Before measurement		Table position	0 mm
After measurement		Inline Composing	Off
Load to viewer	On		
Inline movie	Off	System	
Auto store images	On	V32	Off
Load to stamp segments	Off	A32	On
Load images to graphic	Off	Desitioning mode	FIV
segments	Oli	Positioning mode	FIX
Auto open inline display	Off	MSMA	S-C-T
Start measurement without	On	Sagittal	R >> L
	Oli	Coronal	A >> P
further preparation	0#	Transversal	F >> H
Wait for user to start	Off	Coil Combine Mode	Sum of Squares
Start measurements	single	AutoAlign	Dofoult
Routine		Auto Coil Select	Default
Slice group 1	57	Shim mode	Standard
Slices	57	Adjust with body coil	Off
Dist. factor	0 %	Confirm freq. adjustment	Off
Position	L0.0 A19.0 H6.2	Assume Silicone	Off
Orientation	Transversal	! Ref. amplitude 1H	220.000 V
Phase enc. dir.	A >> P	Adjustment Tolerance	Auto
Rotation	0.00 deg	Adjust volume	
Phase oversampling	0 %	! Position	R0.2 A27.6 H13.1
FoV read	195 mm	! Orientation	T > C0.2
FoV phase	100.0 %	! Rotation	90.00 deg
Slice thickness	2.0 mm	! A >> P	178 mm
TR	1210 ms	! R >> L	133 mm
TE	23 ms	! F >> H	39 mm
Averages	1	1	
Concatenations	1	Physio	
Filter	None	1st Signal/Mode	None
Coil elements	A32	BOLD	
•		GLM Statistics	Off
Contrast			Off
MTC	Off	Dynamic t-maps	
Flip angle	65 deg	Starting ignore meas	0 1
Fat suppr.	Fat sat.	Ignore after transition	-
Averaging mode	Long torm	Model transition states	Off
	Long term	Temp. highpass filter	On
Reconstruction	Magnitude	Threshold	4.00
Measurements	782	Paradigm size	20
Delay in TR	0 ms	Meas[1]	Baseline
Multiple series	Off	Meas[2]	Baseline
Resolution		Meas[3]	Baseline
Base resolution	98	Meas[4]	Baseline
Phase resolution	100 %	Meas[5]	Baseline
Phase partial Fourier	Off	Meas[6]	Baseline
Interpolation	Off	Meas[7]	Baseline
	OII	Meas[8]	Baseline
PAT mode	GRAPPA	Meas[9]	Baseline
Accel. factor PE	2	Meas[10]	Active
Ref. lines PE	_ 24	Meas[11]	Active
Reference scan mode	Separate	Meas[12]	Active
		Meas[13]	Active
Distortion Corr.	Off	Meas[14]	Active
Prescan Normalize	Off	Meas[14]	Active
Raw filter	On	Meas[16]	Active
Elliptical filter	Off		Active
Hamming	Off	Meas[17]	
		Meas[18]	Active
Geometry		Meas[19]	Active
Multi-slice mode	Interleaved	Meas[20]	Active
Series	Interleaved	Motion correction	Off
		Spatial filter	Off

Sequence

Introd	luction	Off
Band	width	1890 Hz/Px
Free	echo spacing	Off
Echo	spacing	0.63 ms
EPI fa	actor	98
RF pt	ılse type	Normal
	ent mode	Fast
Dumr	ny Scans	3
	ny Scans	4
	Factor	3
RF C		0
	SE Factor	1.00
SMS		2
Kerne	el Size	5x5
	pression Factor	1.00

\\USER\UserProtocols\Renzo\MOVIE_DMN\MP2RAGE_slab_0.5x05x0.5_T1_POCS8

roperties		Image Filter	Off
Prio Recon	Off	Distortion Corr.	Off
Before measurement		Prescan Normalize	Off
After measurement		Raw filter	Off
Load to viewer	On O"	Elliptical filter	Off
Inline movie	Off	Geometry	
Auto store images	On Off	Multi-slice mode	Single shot
Load to stamp segments Load images to graphic	Off	Series	Interleaved
segments	Oli		
Auto open inline display	Off	Table position	Н
Start measurement without	On	Table position	0 mm
further preparation		Inline Composing	Off
Wait for user to start	Off	System	
Start measurements	single	System V32	Off
	g	A32	On
outine Slab group 1			
Slabs	1	Positioning mode	FIX
Dist. factor	50 %	MSMA Societal	S - C - T R >> L
Position	R1.4 A23.8 F4.1	Sagittal	
Orientation	T > C-14.0	Coronal	A >> P F >> H
Phase enc. dir.	A >> P	Transversal Save uncombined	F >> H Off
Rotation	0.00 deg	Coil Combine Mode	Adaptive Combine
Phase oversampling	0 %	AutoAlign	
Slice oversampling	0.0 %	Auto Coil Select	Default
Slices per slab	72	Auto Coli Select	Delault
FoV read	191 mm	Shim mode	Standard
FoV phase	100.0 %	Adjust with body coil	Off
Slice thickness	0.50 mm	Confirm freq. adjustment	Off
TR	6000 ms	Assume Silicone	Off
TE	4.16 ms	! Ref. amplitude 1H	277.000 V
Averages	1	Adjustment Tolerance	Auto
Concatenations	1	Adjust volume	
Filter	None	! Position	L0.0 A28.5 F2.6
Coil elements	A32	! Orientation	T > C-12.8
ontrast		! Rotation	90.00 deg
Magn. preparation	Non-sel. IR	! A >> P	178 mm
TI 1	900 ms	! R >> L	133 mm
TI 2	2900 ms	! F >> H	36 mm
Flip angle 1	6 deg	Physio	
Flip angle 2	7 deg	1st Signal/Mode	None
Fat suppr.	None		O#
Water suppr.	None	Dark blood	Off
2nd Inversion Contrast	On	Resp. control	Off
Averaging mode	Long term	Composing	
Reconstruction	Magn./Phase		
Measurements	3	Sequence	
Pause after meas. 1	0.0 s	Introduction	On
Pause after meas. 2	0.0 s	Dimension	3D
Multiple series	Each measurement	Elliptical scanning	Off
•		Asymmetric echo	Off
esolution	200	Contrasts	1
Base resolution	380	Bandwidth	190 Hz/Px
Phase resolution	100 %	Flow comp.	No o s
Slice resolution	100 %	Echo spacing	8.5 ms
Phase partial Fourier	Off	RF pulse type	Fast
Slice partial Fourier	6/8	Gradient mode	Fast
PAT mode	GRAPPA	Excitation	Slab-sel.
Accel. factor PE	2	RF spoiling	On
Ref. lines PE	_ 24		
Nei. III les F L		FFT Scale Factor	150 %

Accel. factor 3D

Reference scan mode

Integrated

Morphometry Analysis

Off

FID MoCo Logging	Off
FID Coil Phase Corr.	Off
LIN/PAR Swap	On
Ext. INV Pulse	On
Flip Angle	1400
Phase Filter	0 px
Uniform Image	On
Head Mask on UNI	Off
T1 Map	On
Complex Div. Image	On
Denoise Weighting	150
FLAWS	Off

\\USER\Userf	Protocols\	Renzo\MOVIE_DMN\26_slic	es_assym_Version	on_129_DNM_TR2412	
TA: 17:50	PAT: 3	Voxel size: 0.8×0.8×0.8 mm	Rel. SNR: 1.00	USER: VASO_124	

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	22
Inline movie	Off	Reference scan mode	Separate
Auto store images	On	Prescan Normalize	Off
Load to stamp segments	Off	Raw filter	Off
Load images to graphic	Off	Elliptical filter	Off
segments		Hamming	Off
Auto open inline display	Off	Coomotivi	
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
Routine		Gap	25.0 mm
Slab group 1		Thickness	100 mm
Slabs	1	Table position	Н
Dist. factor	50 %	Table position	0 mm
Position	R4.0 A23.0 H10.7	Inline Composing	Off
Orientation	Transversal	1	
Phase enc. dir.	P >> A	System	
Rotation	180.00 deg	V32	Off
Phase oversampling	0 %	A32	On
Slice oversampling	7.7 %	Positioning mode	REF
Slices per slab	26	Positioning mode	S-C-T
FoV read	133.0 mm	MSMA Societal	8 - C - 1 R >> L
FoV phase	133.3 %	Sagittal Coronal	A >> P
Slice thickness	0.82 mm		F >> H
TR	2736.60 ms	Transversal	
TE	24 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Sum of Squares
Concatenations	1	Auto Align	Default
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
ı		Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	650 ms	! Ref. amplitude 1H	220.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	26 deg	! Position	R0.2 A27.6 H13.1
Fat suppr.	Fat sat.	! Orientation	T > C0.2
Fat sat. mode	Strong	! Rotation	90.00 deg
Averaging mode	Long term	! A >> P	178 mm
Reconstruction	Magnitude	! R >> L	133 mm
Measurements	391	! F >> H	39 mm
Delay in TR	0 ms	Dhysis	
Multiple series	Off	Physio	Nana
		1st Signal/Mode	None
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1	50 ms	Motion correction	Off
Saturation stop time	50 ms	Spatial filter	Off
Inversion time 2	650.0 ms	1 .	-
Flow limit	100 cm/s	Sequence	
Resolution		Introduction	On
	162	Dimension	3D
Base resolution	162	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1188 Hz/Px
Phase partial Fourier	C/O		
Olice newight Face	6/8	Free echo spacing	Off
Slice partial Fourier	Off	Free echo spacing Echo spacing	Off 0.97 ms
Slice partial Fourier Interpolation			_

RF pulse type Gradient mode Excitation RF spoiling	Normal Normal Slab-sel. On
Ampl BWDTH ph.skip 4 Robert (the one) use Ernst angle Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI	150 150 3.1kHz 1 Off Off Off Off 3.00 3 s 0.00 mT/m*ms 2000 us 25.0 72 ms 76624 ms 28 local Flash 162 100 Hz/px 6500 us 5 deg Off

\\USER\UserProtocols\Renzo\MOVIE_DMN\26_slices_assym_Version_129_DNM_PA

	AT: 3 Voxel size: 0.8×0	.8×0.8 mm Rel. SNR: 1.00 U	SER: VASO_124
Properties		PAT mode Accel, factor PE	GRAPPA 3
Prio Recon	Off	Ref. lines PE	45
Before measurement		Accel. factor 3D	1
After measurement		Ref. lines 3D	22
Load to viewer	On	Reference scan mode	Separate 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	
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	H 0 mm
Position	R4.0 A23.0 H10.7	Table position	-
Orientation	Transversal	Inline Composing	Off
Phase enc. dir.	A >> P	System	
Rotation	0.00 deg	V32	Off
Phase oversampling	0.00 deg	A32	On
Slice oversampling	7.7 %		
Slices per slab	26	Positioning mode	REF
FoV read	133.0 mm	MSMA	S-C-T
FoV phase	133.3 %	Sagittal	R >> L
Slice thickness	0.82 mm	Coronal	A >> P
TR	2736.60 ms	Transversal	F >> H
TE	24 ms	Save uncombined	Off
Averages	1	Coil Combine Mode	Sum of Squares
Concatenations	1	AutoAlign	 D ()
Filter	None	Auto Coil Select	Default
Coil elements	A32	Shim mode	Standard
_	7.02	Adjust with body coil	Off
Contrast		Confirm freq. adjustment	Off
Perfusion mode	SS-SI VASO	Assume Silicone	Off
TI2	650 ms	! Ref. amplitude 1H	220.000 V
TI1	50 ms	Adjustment Tolerance	Auto
TI1s	50 ms	Adjust volume	
Flip angle	26 deg	! Position	R0.2 A27.6 H13.1
Fat suppr.	Fat sat.	! Orientation	T > C0.2
Fat sat. mode	Strong	! Rotation	90.00 deg
Averaging mode	Long term	! A >> P	178 mm
Reconstruction	Magnitude	! R >> L	133 mm
Measurements	391	! F >> H	39 mm
Delay in TR	0 ms	I .	
Multiple series	Off	Physio	N
		1st Signal/Mode	None
Perfusion mode	PICORE Q2T	BOLD	
Inversion time 1	50 ms	Motion correction	Off
Saturation stop time	50 ms	Spatial filter	Off
Inversion time 2	650.0 ms	1 .	
Flow limit	100 cm/s	Sequence	
Resolution		Introduction	On
	162	Dimension	3D
Base resolution	162	Reordering	Linear
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1188 Hz/Px
Phase partial Fourier	6/8	Free echo spacing	Off
Slice partial Fourier	Off Off	Echo spacing	0.97 ms
Interpolation	Off	EPI factor	216
1		Li i lacioi	210

RF pulse type Gradient mode Excitation RF spoiling	Normal Normal Slab-sel. On
Ampl BWDTH ph.skip 4 Robert (the one) use Ernst angle Maxwell Correction log physio files FFT scale dummy prepscan time z shim RF duration RF BWTP Renzo: Delta TI EFFECTIVE TR PatPartitions EPI phase correction PAT refscan mode FlashRef BaseRes FlashRef BW FlashRef TE FlashRef FA use CAIPI	150 150 3.1kHz 1 Off Off Off Off 3.00 3 s 0.00 mT/m*ms 2000 us 25.0 72 ms 76624 ms 28 local Flash 162 100 Hz/px 6500 us 5 deg Off