\\USER\Feinberglab\Test\ASL\localizer_200V ff Voxel size: 1.2×1.1×3.0 mm Rel. SNR: 1.00

SIEMENS: gre

TA: 0:27

PAT: Off

TA. 0.27 PA	AT. OII VOXEI SIZE. T.ZXT.TX.	5.0 mm Rei. SNR. 1.00	SIEWENS. gre
Properties		Phase resolution	90 %
Prio Recon	Off	Phase partial Fourier	6/8
Before measurement		Interpolation	On
After measurement		PAT mode	None
Load to viewer	On		
Inline movie	Off	Image Filter	Off
Auto store images	On	Distortion Corr.	Off
Load to stamp segments	Off	Prescan Normalize	Off
Load images to graphic	Off	Normalize	Off
segments		B1 filter	Off
Auto open inline display	Off	Raw filter	Off
Start measurement without	On	Elliptical filter	Off
further preparation		Geometry	
Wait for user to start	Off	Multi-slice mode	Sequential
Start measurements	single	Series	Interleaved
ļ	Single	Series	
Routine		Saturation mode	Standard
Slice group 1		Special sat.	None
Slices	5		
Dist. factor	20 %	Table position	Н
Position	Isocenter	Table position	0 mm
Orientation	Sagittal	Inline Composing	Off
Phase enc. dir.	A >> P		
Rotation	0.00 deg	Tim CT mode	Off
Slice group 2	G	System	
Slices	5	E17	On
Dist. factor	20 %	E18	On
Position	Isocenter	E19	On
Orientation	Coronal	E20	On
Phase enc. dir.	R >> L		_
Rotation	0.00 deg	E01	On
Slice group 3	5.55 dog	E02	On
Slices	5	E03	On
Dist. factor	20 %	E04	On
Position	Isocenter	E05	On
Orientation	Transversal	E06	On
Phase enc. dir.	A >> P	E07	On
Rotation	0.00 deg	E08	On
	0.00 deg 0 %	E09	On
Phase oversampling	280 mm	E10	On
FoV read		E11	On
FoV phase	100.0 %	E12	On
Slice thickness	3.0 mm	E13	On
TR	10.0 ms	E14	On
TE	3.00 ms	E15	On
Averages	1	E16	On
Concatenations	15 Name	Positioning mode	EIV
Filter	None	Positioning mode MSMA	FIX S - C - T
Coil elements	E01-20	Sagittal	S-C-1 R>>L
Contrast		Coronal	A >> P
TD	0 ms	Transversal	A >> P F >> H
MTC	Off		
Magn. preparation	None	Save uncombined	Off Adaptive Combine
Flip angle	10 deg	Coil Combine Mode	Adaptive Combine
Fat suppr.	None	Auto Coil Soloot	 O#
Water suppr.	None	Auto Coil Select	Off
SWI	Off	Shim mode	Tune up
		Adjust with body coil	Off
Averaging mode	Short term	Confirm freq. adjustment	Off
Reconstruction	Magnitude	Assume Silicone	Off
Measurements	1	! Ref. amplitude 1H	200.000 V
Multiple series	Each measurement	Adjustment Tolerance	Auto
Resolution		Adjust volume	
Base resolution	256	Position	Isocenter
Dase resultition	200	Orientation	Transversal
		1/22	-

Rotation R >> L A >> P F >> H	0.00 deg 350 mm 263 mm 350 mm
Physio	
1st Signal/Mode Segments	None 1
Tagging Dark blood	None Off
Resp. control	Off
Inline	
Subtract Liver registration Std-Dev-Sag Std-Dev-Cor Std-Dev-Tra Std-Dev-Time MIP-Sag MIP-Cor MIP-Tra MIP-Time Save original images	Off
Wash - In Wash - Out TTP PEI MIP - time	Off Off Off Off Off
MapIt Contrasts	None 1
1	•
Sequence Introduction Dimension Phase stabilisation Asymmetric echo Bandwidth Flow comp.	On 2D Off Allowed 320 Hz/Px No
RF pulse type Gradient mode Excitation RF spoiling	Normal Whisper Slice-sel. On

Rel. SNR: 1.00

USER: pgrs3d_asl_collection_new

Voxel size: 4.0×4.0×4.0 mm

TA: 0:10

1A. U. 1U	VOXEI SIZE. 4.0x4.0x4.0 IIIIII	Rei. SNR. 1.00 USER. pgissu_	_asi_collection_new
Duranastina		Table position	0 mm
Properties	0"	Inline Composing	Off
Prio Recon	Off	System	
Before measurement		T1	On
After measurement Load to viewer	On	M2	Off
	Off	B4	Off
Inline movie		M3	Off
Auto store images	On Off	V32	Off
Load to stamp segments Load images to graphic	Off	V32	OII
segments	Oli	Positioning mode	REF
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	_	Sagittal	R >> L
further preparation	out On	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
Start measurements	Sirigie	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slab group 1		Auto Coil Select	Default
Slabs	1	01:	0
Dist. factor	0 %	Shim mode	Standard
Position	Isocenter	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
Slice oversampling	0.0 %	Adjust volume	
Slices per slab	26	Position	Isocenter
FoV read	256 mm	Orientation	Transversal
FoV phase	100.0 %	Rotation	0.00 deg
Slice thickness	4.0 mm	R >> L	256 mm
TR	5000 ms	A >> P	256 mm
TE	39.2 ms	F >> H	104 mm
Averages	1	Physio	
Concatenations	1	1st Signal/Mode	None
Filter	None	Segments	1
Coil elements	T1	•	
Contrast		Composing	
Flip angle	180 deg	Sequence	
Fat suppr.	Fat sat.	Introduction	Off
Fat sat. mode	Strong	Dimension	3D
		Reordering	Centric
Averaging mode	Long term	Contrasts	1
Reconstruction	Magnitude	Bandwidth	2298 Hz/Px
Measurements	1 .	Echo spacing	0.5 ms
Multiple series	Each measurement	Turbo factor	16
Resolution		EPI factor	64
Base resolution	64	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %		
Slice partial Fourier	5/8	ASL mode	TE-pCASL
Interpolation	Off	Pre sat	On
		manual LABEL/SAT region	Off
Prescan Normalize	Off	Robust Hadamard	Off
Raw filter	Off	Saturation mode	const 90
Geometry		Background Suppr	2*T1-based
Series	Interleaved		BackgroundSupression
NACTION .		BS parameter_1	700 ms
		BS parameter_2	100 ms
Sat. region 1			
	17 mm	Thickness of BS slice	200 mm
Sat. region 1	17 mm Isocenter	Thickness of BS slice FOCI parameter_0	200 mm 800
Sat. region 1 Thickness			
Sat. region 1 Thickness Position	Isocenter	FOCI parameter_0	800
Sat. region 1 Thickness Position Orientation	Isocenter Transversal	FOCI parameter_0 FOCI parameter_1	800 24

Additional scaling factor
Distribution Mode Equal
z-spoiling equal
Fix label plane offset Off
pCASL bolus length 300 ms
Subbolus length 50 ms
Time encoding steps 2
RF gap 360 user

RF gap 360 usec
RF FA 25 deg
post labeling delay 200 ms
Number of echoes 1

 $\verb|\USER\Feinberg| ab\Test\ASL\pgrs3d_asl_collection_new_7T| \\$

Rel. SNR: 1.00

USER: pgrs3d_asl_collection_new_7T

Voxel size: 2.0×2.0×4.0 mm

TA: 0:40

1A. 0.40 VO	xei Size. 2.0x2.0x4.0 IIIIII	Rei. SNR. 1.00 USER. pgissu_a	01_00110011_11011_1
Danasitia		Table position	0 mm
Properties	0"	Inline Composing	Off
Prio Recon	Off	System	
Before measurement After measurement		T1	On
Load to viewer	On	M2	Off
Inline movie	Off	B4	Off
Auto store images	On	M3	Off
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	V32	OII
segments	Oli	Positioning mode	REF
Auto open inline display	Off	MSMA	S - C - T
Start measurement withou	_	Sagittal	R >> L
further preparation	at 311	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
I	5g.5	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slab group 1		Auto Coil Select	Default
Slabs	1	Shim mode	Standard
Dist. factor	0 %	Adjust with body coil	Off
Position	Isocenter	Confirm freq. adjustment	Off
Orientation	Transversal	Assume Silicone	Off
Phase enc. dir.	R >> L	? Ref. amplitude 1H	0.000 V
Rotation	90.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
Slice oversampling	0.0 %	Position	Isocenter
Slices per slab	26	Orientation	Transversal
FoV read	256 mm	Rotation	90.00 deg
FoV phase Slice thickness	62.5 % 4.0 mm	A >> P	256 mm
TR	4.0 mm 5000 ms	R >> L	160 mm
TE	18.58 ms	F >> H	104 mm
Averages	1	Physic	
Concatenations	1	Physio	None
Filter	None	1st Signal/Mode	
Coil elements	T1	Segments	4
l	11	Composing	
Contrast		Sequence	
Flip angle	100 deg	Introduction	Off
Fat suppr.	Fat sat.	Dimension	3D
Fat sat. mode	Strong	Reordering	Centric
Averaging mode	Long term	Contrasts	1
Reconstruction	Magn./Phase	Bandwidth	2298 Hz/Px
Measurements	1	Echo spacing	0.6 ms
Multiple series	Each measurement		
Resolution		Turbo factor	16
Base resolution	128	EPI factor	20 Normal
Phase resolution	128	RF pulse type	Normal
Slice resolution	100 %	Gradient mode	Fast
Slice partial Fourier	5/8	ASL mode	PASL
Interpolation	5/6 On	Pre sat	Off
		Post sat	On
Prescan Normalize	Off	manual LABEL/SAT region	Off
Raw filter	Off	Saturation mode	const 90
Geometry		Background Suppr	NOBackgroundsupp
Series	Interleaved	BS parameter_1	700 ms
		BS parameter_2	100 ms
Sat. region 1		FOCI parameter_0	600
Thickness	17 mm	FOCI parameter_1	12
Position	Isocenter	FOCI parameter_2	1.0
		L COCI parameter 2	200
Orientation	Transversal	FOCI parameter_3	300
	Transversal None	FOCI parameter_4	0.500
Orientation			

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

 $\verb|\USER\Feinberg| lab\Test\ASL\BP_grase_clean_sat|$

TA: 6.0 s PAT: 2	Voxel size: 0.7×0.7×1.0 mm	Rel. SNR: 1.00 USER:	BP_grase_clean_sat
Properties		Thickness	87 mm
Prio Recon	Off	Position Orientation	L0.0 P17.5 H0.0 Coronal
Before measurement			None
After measurement		Special sat.	none
Load to viewer	On	Table position	Н
Inline movie	Off	Table position	0 mm
Auto store images	On	Inline Composing	Off
Load to stamp segments	Off	Custom	
Load images to graphic	Off	System	0
segments		T1	On
Auto open inline display	Off	M2	On
Start measurement without	On	B4	On
further preparation		M3	On Off
Wait for user to start	Off	V32	Off
Start measurements	single	Positioning mode	REF
Routine		MSMA	S - C - T
		- Sagittal	R >> L
Slab group 1	1	Coronal	A >> P
Slabs Diet factor	1 0 %	Transversal	F >> H
Dist. factor	0 % L0.0 P16.9 H16.9	Save uncombined	Off
Position Orientation	Transversal	Coil Combine Mode	Adaptive Combine
•		AutoAlign	·
Phase enc. dir.	A >> P	Auto Coil Select	Default
Rotation	0 deg		•••••
Phase oversampling	0 %	Shim mode	Standard
Slice oversampling	25.0 %	Adjust with body coil	Off
Slices per slab FoV read	8 148 mm	Confirm freq. adjustment	Off
		Assume Silicone	Off
FoV phase	36.4 %	? Ref. amplitude 1H	0.000 V
Slice thickness	1 mm 3000 ms	Adjustment Tolerance	Auto
TR TE		Adjust volume	100000000000
	52.4 ms 1	Position	L0.0 P16.9 H16.9
Averages Concatenations	1	Orientation	Transversal
Filter	None	Rotation	0.00 deg 148 mm
Coil elements	B4;M2,3;T1	R >> L A >> P	148 mm 54 mm
Con elements	D+,IVI2,3,11	F >> H	8 mm
Contrast		<u>I</u>	0 111111
Flip angle	90 deg	Physio	
Fat suppr.	None	1st Signal/Mode	None
Averaging mode	Long term	Composing	
Reconstruction	Magnitude	Composing	
Measurements	1	Sequence	
Multiple series	Off	Introduction	Off
		Dimension	3D
Resolution		Reordering	Centric
Base resolution	198	Asymmetric echo	Off
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1010 Hz/Px
Phase partial Fourier	Off	Echo spacing	1.1 ms
Slice partial Fourier	Off	Turbo factor	10
Interpolation	On	EPI factor	72
PAT mode	GRAPPA	RF pulse type	Normal
Accel. factor PE	2	Gradient mode	Fast
Ref. lines PE	30	Gradient mode	ı ası
Accel. factor 3D	1	refocussing type	sinc 2560
Ref. lines 3D	10	flip angle excit	90
Reference scan mode	Separate	Crusher Momentum	30000
		Crusher Time	1000
Raw filter	Off	phase encoding	ON
Geometry		Maxwell compensation	Off
Series	Interleaved	ICE program	single
OCITES	IIIICIICAVCU	prepscans	0

\\USER\Feinberglab\Test\ASL\BP_grase_clean_sat

TA: 6.0 s PAT: 2	Voxel size: 1.1×0.8×1.0	0 mm Rel. SNR: 1.00 USER:	BP_grase_clean_sat
Properties		Orientation Special sat.	Coronal None
Prio Recon	Off		
Before measurement		Table position	H
After measurement		Table position	0 mm
Load to viewer	On	Inline Composing	Off
Inline movie	Off	System	
Auto store images	On	T1	On
Load to stamp segments	Off	M2	On
Load images to graphic	Off	B4	On
segments		M3	On
Auto open inline display	Off	V32	Off
Start measurement without	On	V 32	
further preparation		Positioning mode	REF
Wait for user to start	Off	MSMA	S - C - T
Start measurements	single	Sagittal	R >> L
Douting		Coronal	A >> P
Routine		Transversal	F >> H
Slab group 1		Save uncombined	Off
Slabs	1	Coil Combine Mode	Sum of Squares
Dist. factor	0 %	AutoAlign	
Position	L0.0 P16.9 H16.9	Auto Coil Select	Default
Orientation	Transversal		
Phase enc. dir.	A >> P	Shim mode	Standard
Rotation	0.00 deg	Adjust with body coil	Off
Phase oversampling	0 %	Confirm freq. adjustment	Off
Slice oversampling	25.0 %	Assume Silicone	Off
Slices per slab	8	? Ref. amplitude 1H	0.000 V
FoV read	190 mm	Adjustment Tolerance	Auto
FoV phase	35.0 %	Adjust volume	7 10.10
Slice thickness	1.0 mm	Position	L0.0 P16.9 H16.9
TR	3000 ms	Orientation	Transversal
TE	43.8 ms	Rotation	0.00 deg
Averages	1	R >> L	190 mm
Concatenations	1	A >> P	67 mm
Filter	None	F >> H	
Coil elements	B4;M2,3;T1	г>>п	8 mm
Coll elements	D4,1V12,3,11	Physio	
Contrast		1st Signal/Mode	None
Flip angle	180 deg	Compasing	
Fat suppr.	None	Composing	
Averaging mode	Long term	Sequence	
Reconstruction	Magnitude	Introduction	Off
Measurements	1	Dimension	3D
Multiple series	Off	Reordering	Centric
•	0.11	Asymmetric echo	Off
Resolution		Contrasts	1
Base resolution	240	Bandwidth	1096 Hz/Px
Phase resolution	71 %	Echo spacing	1 ms
Slice resolution	100 %		
Phase partial Fourier	Off	Turbo factor	10
Slice partial Fourier	Off	EPI factor	60
Interpolation	On	RF pulse type	Normal
		Gradient mode	Fast
PAT mode	mSENSE	refecuseing type	sinc 2560
Accel. factor PE	2	refocussing type flip angle excit	90
Ref. lines PE	30	Crusher Momentum	30000
Reference scan mode	Separate		
Raw filter	Off	Crusher Time	1000 ON
Naw IIIICI	Oli	phase encoding	ON O#
Geometry		Maxwell compensation	Off
Series	Interleaved	ICE program	single
		prepscans	0
Sat. region 1		Refocusing Duration	7680
Thickness	33 mm L0.0 P17.5 H0.0		
Position			

 $\verb|\USER\Feinberg|| ab\Test\ASL\BP_grase_clean_sat|$

TA: 3.0 s PAT: Off	Voxel size: 7.8×7.8×3.0 mm	Rel. SNR: 1.00 USER: BP_grase_clean_sat	
Properties		Table position	Н
Prio Recon	Off	Table position	0 mm
Before measurement	OII	Inline Composing	Off
After measurement		System	
Load to viewer	On	T1	On
Inline movie	Off	M2	Off
Auto store images	On	B4	Off
Load to stamp segments	Off	M3	Off
Load images to graphic	Off	V32	Off
segments	5		
Auto open inline display	Off	Positioning mode	REF
Start measurement without	On	MSMA	S - C - T
further preparation	0.1	Sagittal	R >> L
Wait for user to start	Off	Coronal	A >> P
Start measurements	single	Transversal	F >> H
	Silligio	Save uncombined	Off
Routine		Coil Combine Mode	Adaptive Combine
Slab group 1		AutoAlign	
Slabs	1	Auto Coil Select	Default
Dist. factor	0 %	Shim mode	Standard
Position	Isocenter	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	A >> P	Assume Silicone	Off
Rotation	0.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
Slice oversampling	0.0 %	Adjust volume	Adio
Slices per slab	20	Position	Isocenter
FoV read	500 mm	Orientation	Transversal
FoV phase	100.0 %	Rotation	0.00 deg
Slice thickness	3.0 mm	R >> L	500 mm
TR	3000 ms	A >> P	500 mm
TE	37.54 ms	F >> H	60 mm
Averages	1		00 111111
Concatenations	1	Physio	
Filter	None	1st Signal/Mode	None
Coil elements	T1 '	Composing	
Contrast	-	Composing	
Flip angle	180 deg	Sequence	
Fat suppr.	Fat sat.	Introduction	Off
Fat sat. mode	Strong	Dimension	3D
		Reordering	Centric
Averaging mode	Long term	Asymmetric echo	Allowed
Reconstruction	Magnitude	Contrasts	1
Measurements	1	Bandwidth	2004 Hz/Px
Multiple series	Off	Echo spacing	0.5 ms
Resolution		Turbo factor	20
Base resolution	64	Turbo factor EPI factor	20 64
Phase resolution	100 %	RF pulse type	04 Normal
Slice resolution	100 %	Gradient mode	Fast
Phase partial Fourier	Off	Gradient mode	1 ⁻ aəl
Slice partial Fourier	Off	refocussing type	sinc 2560
Interpolation	Off	flip angle excit	90
	VII	Crusher Momentum	10000
PAT mode	None	Crusher Time	650
Raw filter	Off	phase encoding	ON
Naw IIILEI	Oii	Maxwell compensation	Off
Geometry		ICE program	single
Series	Interleaved	prepscans	0
Sat. region 1		Refocusing Duration	1280
Sar region 1	Į.	=	
	CC		
Thickness	66 mm		
Thickness Position	Isocenter		
Thickness			

 $\verb|\USER\Feinberg| lab\Test\ASL\BP_grase_clean_sat|$

TA: 6.0 s PAT: 2	Voxel size: 0.8×0.8×1.0 mm	Rel. SNR: 1.00 USER:	BP_grase_clean_sat
Properties		Sat. region 1	
Prio Recon	Off	Thickness	28 mm
	OII	Position	L0.0 A3.7 H0.0
Before measurement		Orientation	Coronal
After measurement	0.5	Special sat.	None
Load to viewer	On O#	Table position	
Inline movie	Off	Table position	H
Auto store images	On Off	Table position	0 mm
Load to stamp segments	Off	Inline Composing	Off
Load images to graphic	Off	System	
segments	0"		On
Auto open inline display	Off	M2	On
Start measurement without	On	B4	On
further preparation	0#	M3	On
Wait for user to start	Off	V32	Off
Start measurements	single		
Routine		Positioning mode	REF
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	R >> L
Dist. factor	0 %	Coronal	A >> P
Position	L0.0 A3.4 H62.4	Transversal	F >> H
Orientation	Transversal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Sum of Squares
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0.00 deg 0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Standard
Slices per slab	8	Adjust with body coil	Off
FoV read	205 mm		Off
FoV phase	18.8 %	Confirm freq. adjustment Assume Silicone	Off
Slice thickness	1.0 mm		0.000 V
TR	3000 ms	? Ref. amplitude 1H	
TE	40.22 ms	Adjustment Tolerance	Auto
	1	Adjust volume	100000411004
Averages Concatenations	1	Position	L0.0 A3.4 H62.4
Filter	Raw filter	Orientation	Transversal
Coil elements		Rotation	0.00 deg
Con elements	B4;M2,3;T1	R >> L	205 mm
Contrast		A >> P	39 mm
Flip angle	180 deg	F >> H	8 mm
Fat suppr.	Fat sat.	Physio	
Fat sat. mode	Strong	1st Signal/Mode	None
Averaging mode	Long term	Composing	
Reconstruction	Magnitude	Composing	
Measurements	Magnitude 1	Sequence	
	Off	Introduction	Off
Multiple series	Oil	Dimension	3D
Resolution		Reordering	Centric
Base resolution	256	Asymmetric echo	Off
Phase resolution	100 %	Contrasts	1
Slice resolution	100 %	Bandwidth	1148 Hz/Px
Phase partial Fourier	Off	Echo spacing	1 ms
Slice partial Fourier	Off		
Interpolation	On	Turbo factor	8
		EPI factor	48
PAT mode	mSENSE	RF pulse type	Normal
Accel. factor PE	2	Gradient mode	Fast
Ref. lines PE	24	refocussing type	sinc 2560
Reference scan mode	Separate	refocussing type	
Raw filter	On	flip angle excit	90
Intensity	Weak	Crusher Momentum	30000
1	vveak 25	Crusher Time	1000 ON
Slope	۷۵	phase encoding	ON O#
Geometry		Maxwell compensation	Off
		I IOF	a:aala
Series	Interleaved	ICE program prepscans	single 0

Refocusing Duration

10240

Properties	0#	Table position Inline Composing	0 mm Off
Prio Recon	Off	1	
Before measurement		System	0.5
After measurement	0	T1	On
Load to viewer	On Off	M2	On
Inline movie	Off	B4	On
Auto store images	On Off	M3	On Off
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	Positioning mode	REF
segments	0"	MSMA	S - C - T
Auto open inline display	Off	Sagittal	R >> L
Start measurement without	On	Coronal	A >> P
further preparation	0#	Transversal	F >> H
Wait for user to start	Off	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
loutine		AutoAlign	·
Slab group 1		Auto Coil Select	Default
Slabs	1		
Dist. factor	0 %	Shim mode	Standard
Position	L0.0 P36.6 H40.7	Adjust with body coil	Off
Orientation	C > T-20.8	Confirm freq. adjustment	Off
Phase enc. dir.	F >> H	Assume Silicone	Off
Rotation	90.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
Slice oversampling	0.0 %	Adjust volume	
Slices per slab	24	Position	L0.0 P36.6 H40.7
FoV read	210 mm	Orientation	C > T-20.8
FoV phase	75.0 %	Rotation	90.00 deg
Slice thickness	3.3 mm	R >> L	210 mm
TR	3000 ms	F >> H	158 mm
TE	18.88 ms	A >> P	80 mm
Averages	2	Physio	
Concatenations	_ 1	1st Signal/Mode	None
Filter	None	Segments	4
Coil elements	B4;M2,3;T1		
Contrast		Composing	
Flip angle	180 deg	—— Sequence	
Fat suppr.	Fat sat.	Introduction	Off
Fat sat. mode	Strong	Dimension	3D
		Reordering	Centric
Averaging mode	Long term	Contrasts	1
Reconstruction	Magn./Phase	Bandwidth	2790 Hz/Px
Measurements	1	Echo spacing	0.5 ms
Multiple series	Each measurement	Turbo factor	9
Resolution		EPI factor	24
Base resolution	64	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %		
Slice partial Fourier	6/8	ASL mode	PASL
Interpolation	On	Pre sat	Off
		Post sat	On
Prescan Normalize	Off	manual LABEL/SAT region	Off
Raw filter	Off	Saturation mode	var. I
Geometry		Background Suppr	fiveT1opt
Series	Interleaved	BS parameter_1	800 ms
		BS parameter_2	50 ms
Sat. region 1		FOCI parameter_0	600
Thickness	78 mm	FOCI parameter_1	12
Position	L0.0 P0.0 H58.0	FOCI parameter_2	1.0
Orientation	Transversal	FOCI parameter_3	300
Special sat.	None	FOCI parameter_4	0.500
	ш	Additional scaling factor	10.0
Table position	Н	Distribution Mode	Equal

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

Off On Off	Table position Inline Composing System T1	0 mm Off
On	System	
		On
	M2	On
Oil	B4	On
On	M3	On
Off	V32	Off
Off	V 32	
Oli	Positioning mode	REF
Off	MSMA	S - C - T
	Sagittal	R >> L
Oli	Coronal	A >> P
Off	Transversal	F >> H
	Save uncombined	Off
Sirigie	Coil Combine Mode	Adaptive Combine
	AutoAlign	
	Auto Coil Select	Default
1	Shim made	Standard
0 %		
L0.0 A27.1 H83.4		Off
T > C-1.0		Off
R >> L		Off
90.00 deg		0.000 V
		Auto
24		L0.0 A27.1 H83.4
210 mm		T > C-1.0
		90.00 deg
		210 mm
		158 mm
	F >> H	80 mm
	Physio	
		None
		4
	Segments	4
_ ·,··· <u>_</u> ,o, · ·	Composing	
400 de a	Sequence	
		Off
		3D
Strong		Centric
Long term		1
		2790 Hz/Px
1		0.5 ms
Each measurement		
		9
		24
		Normal
	Gradient mode	Fast
	ASI mode	PASL
		Off
On		On
Off		Off
	-	var. I
		fiveT1opt
		800 ms
Interleaved		50 ms
		600
72 mm		12
		1.0
		300
INONE		0.500
н	Distribution Mode	10.0 Equal
	0 % L0.0 A27.1 H83.4 T > C-1.0 R >> L 90.00 deg 0 % 0.0 % 24 210 mm 75.0 % 3.3 mm 3000 ms 18.88 ms 2 1 None B4;M2,3;T1 180 deg Fat sat. Strong Long term Magn./Phase 1 Each measurement 64 100 % 100 % 6/8 On Off Off Off Interleaved 72 mm L0.0 P0.0 H80.6 Transversal None	Off single Coronal Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select 1 0 % L0.0 A27.1 H83.4 T > C-1.0 R >> L 90.00 deg 0.0 % 0.0

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

TA: 0:24 Voxel	•	el. SNR: 1.00 USER: pgrs3d_a	sl_collection_new_7T
Properties	0"	Table position Inline Composing	0 mm Off
Prio Recon	Off	, , ,	
Before measurement		System	On
After measurement	0.5	T1	On
Load to viewer	On Off	M2	On
Inline movie	Off	B4	On
Auto store images	On Off	M3	On Off
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	Positioning mode	REF
segments	0"	MSMA	S - C - T
Auto open inline display	Off	Sagittal	R >> L
Start measurement without	On	Coronal	A >> P
further preparation	O#	Transversal	F >> H
Wait for user to start	Off	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slab group 1		Auto Coil Select	Default
Slabs	1		
Dist. factor	0 %	Shim mode	Standard
Position	L0.0 P36.6 H40.7	Adjust with body coil	Off
Orientation	C > T-20.8	Confirm freq. adjustment	Off
Phase enc. dir.	F >> H	Assume Silicone	Off
Rotation	90.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
Slice oversampling	0.0 %	Adjust volume	
Slices per slab	24	! Position	L0.7 A23.1 F25.1
FoV read	210 mm	! Orientation	Transversal
FoV phase	75.0 %	! Rotation	90.00 deg
Slice thickness		! A >> P	210 mm
	3.3 mm 3000 ms	! R >> L	158 mm
TR TE		! F >> H	82 mm
	18.88 ms	Dhusia	
Averages Concatenations	1 1	Physio	N
Filter	None	1st Signal/Mode	None
		Segments	4
Coil elements	B4;M2,3;T1	Composing	
Contrast		-	
Flip angle	180 deg	Sequence	0"
Fat suppr.	Fat sat.	Introduction	Off
Fat sat. mode	Strong	Dimension	3D
Averaging mode	Long torm	Reordering	Centric
Averaging mode Reconstruction	Long term Magn./Phase	Contrasts	1
Measurements	Magn./Fnase	Bandwidth	2790 Hz/Px
Multiple series	Each measurement	Echo spacing	0.5 ms
Multiple series	Lacifileasurement	Turbo factor	9
Resolution		EPI factor	24
Base resolution	64	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %		D. O.
Slice partial Fourier	6/8	ASL mode	PASL
Interpolation	On	Pre sat	Off
		Post sat	On
Prescan Normalize	Off	manual LABEL/SAT region	Off
Raw filter	Off	Saturation mode	const 90
Geometry		Background Suppr	fiveT1opt
Series	Interleaved	BS parameter_1	800 ms
		BS parameter_2	50 ms
Sat. region 1		FOCI parameter_0	600
Thickness	78 mm	FOCI parameter_1	12
Position	L0.0 P0.0 H58.0	FOCI parameter_2	1.0
Orientation	Transversal	FOCI parameter_3	300
Special sat.	None	FOCI parameter_4	0.500
		Additional scaling factor	10.0
Table position	Н	7 taditional oballing labtor	10.0

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

TA: 1:12 Voxel	size: 1.9×1.9×2.6 mm R	el. SNR: 1.00 USER: pgrs3d_a	sl_collection_new_7T
Properties		Table position Inline Composing	0 mm Off
Prio Recon	Off	,	
Before measurement		System	0.5
After measurement	0.5	T1	On
Load to viewer Inline movie	On Off	M2 B4	On On
	=	M3	_
Auto store images	On Off	V32	On Off
Load to stamp segments Load images to graphic	Off	V 32	OII
segments	Oll	Positioning mode	FIX
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	311	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
	5.1.g.5	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slab group 1		Auto Coil Select	Default
Slabs	1	Shim mode	Standard
Dist. factor	0 %	Adjust with body coil	Off
Position	L0.0 P36.6 H40.7	Confirm freq. adjustment	Off
Orientation	C > T-6.9	Assume Silicone	Off
Phase enc. dir.	F >> H	? Ref. amplitude 1H	0.000 V
Rotation	90.00 deg 0 %	Adjustment Tolerance	Auto
Phase oversampling		Adjust volume	
Slice oversampling Slices per slab	0.0 % 24	! Position	L0.0 P36.6 H40.7
FoV read	240 mm	! Orientation	C > T-15.1
FoV phase	75.0 %	! Rotation	90.00 deg
Slice thickness	2.6 mm	! R >> L	250 mm
TR	3000 ms	! F >> H	188 mm
TE	26.32 ms	! A >> P	63 mm
Averages	2	Physio	
Concatenations	<u>-</u> 1	1st Signal/Mode	None
Filter	None	Segments	6
Coil elements	B4;M2,3;T1	1 3	O
2 1 1	, ,-,	Composing	
Contrast	100 do a	Sequence	
Flip angle	100 deg	Introduction	Off
Fat suppr.	Fat sat.	Dimension	3D
Fat sat. mode	Strong	Reordering	Centric
Averaging mode	Long term	Contrasts	1
Reconstruction	Magn./Phase	Bandwidth	2298 Hz/Px
Measurements	1	Echo spacing	0.6 ms
Multiple series	Each measurement	Turbo footor	0
Resolution		Turbo factor EPI factor	9 32
Base resolution	128	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %		
Slice partial Fourier	6/8	ASL mode	PASL
Interpolation	On	Pre sat	Off
		Post sat	On
Prescan Normalize	Off	manual LABEL/SAT region	Off
Raw filter	Off	Saturation mode	const 90
Geometry		Background Suppr	fiveT1opt
Series	Interleaved	BS parameter_1	800 ms
		BS parameter_2	50 ms
Sat. region 1	70	FOCI parameter_0	600
Thickness	78 mm	FOCI parameter_1	12
Position	L0.0 P0.0 H58.0	FOCI parameter_2	1.0
Orientation	Transversal	FOCI parameter_3	300
Special sat.	None	FOCI parameter_4	0.500
Table position	H	Additional scaling factor	10.0
•		Distribution Mode	Equal

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

			sl_collection_new_7T
Properties	0#	Table position Inline Composing	0 mm Off
Prio Recon	Off	1	
Before measurement After measurement		System T1	On
Load to viewer	On	M2	On
Inline movie	Off	B4	On
Auto store images	On	M3	On
Load to stamp segments	Off	V32	Off
Load images to graphic	Off	V 32	
segments	Oli	Positioning mode	REF
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation	OII	Coronal	A >> P
Wait for user to start	Off	Transversal	F >> H
Start measurements	single	Save uncombined	Off
Start measurements	Sirigie	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slab group 1		Auto Coil Select	Default
Slabs	1	Shim mada	Standard
Dist. factor	0 %	Shim mode Adjust with body coil	Off
Position	L0.0 P36.6 H40.7		
Orientation	C > T-20.8	Confirm freq. adjustment	Off
Phase enc. dir.	F >> H	Assume Silicone	Off
Rotation	90.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
Slice oversampling	0.0 %	Adjust volume	10710015051
Slices per slab	24	! Position	L0.7 A23.1 F25.1
FoV read	210 mm	! Orientation	Transversal
FoV phase	75.0 %	! Rotation	90.00 deg
Slice thickness	3.3 mm	! A >> P	210 mm
TR	3000 ms	! R >> L	158 mm
TE	18.88 ms	! F >> H	82 mm
Averages	2	Physio	
Concatenations	<u>-</u> 1	1st Signal/Mode	None
Filter	None	Segments	4
Coil elements	B4;M2,3;T1	1 3	7
	, ,-,	Composing	
Contrast	100 do a	—— Sequence	
Flip angle	180 deg	Introduction	Off
Fat suppr.	Fat sat.	Dimension	3D
Fat sat. mode	Strong	Reordering	Centric
Averaging mode	Long term	Contrasts	1
Reconstruction	Magn./Phase	Bandwidth	2790 Hz/Px
Measurements	1	Echo spacing	0.5 ms
Multiple series	Each measurement		
·		Turbo factor	9
Resolution	0.1	EPI factor	24
Base resolution	64	RF pulse type	Normal
Phase resolution	100 %	Gradient mode	Fast
Slice resolution	100 %	ASL mode	PASL
Slice partial Fourier	6/8	Pre sat	Off
Interpolation	On	Post sat	On
Prescan Normalize	Off	manual LABEL/SAT region	Off
Raw filter	Off	Saturation mode	const 90
	5	Background Suppr	fiveT1opt
Seometry		BS parameter_1	800 ms
Series	Interleaved	BS parameter_1 BS parameter_2	50 ms
Sat. region 1		FOCI parameter_0	600
	79 mm		
Thickness	78 mm	FOCI parameter_1	12
Position	L0.0 P0.0 H58.0	FOCI parameter_2	1.0
Orientation	Transversal	FOCI parameter_3	300
Special sat.	None	FOCI parameter_4	0.500
Table position	H	Additional scaling factor	10.0
ι αρίο ροσιτίοι ι	1.1	Distribution Mode	Equal

z-spoiling Start of time series equal 1700 ms Increment time series 100 ms Length of time series Bolus length

2000 ms

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\\USER

Feinber	glab		
	Test		
		ASL	
			localizer_200V
			pgrs3d_asl_collection_new
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			BP_grase_clean_sat
			pgrs3d_asl_collection_new_7T