\\USER\PROTO\IMAGEN\imagen, cenir\localizer

TA: 0:37 P		7.0 mm Rel. SNR: 1.00	SIEMENS: gre
Properties		Phase resolution	90 %
Prio Recon	Off	Phase partial Fourier	Off
Before measurement	Oli	Interpolation	On
After measurement		PAT mode	None
Load to viewer	On	Matrix Coil Mode	CP
Inline movie	Off		
Auto store images	On	Image Filter	Off
Load to stamp segments	Off	Distortion Corr.	On
Load images to graphic	Off	Mode	2D
segments	.	Unfiltered images	Off
Auto open inline display	Off	Unfiltered images	Off
Start measurement without	Off	Prescan Normalize	On
further preparation		Normalize	Off
Wait for user to start	Off	B1 filter	Off
Start measurements	single	Raw filter	Off
Double -	3	Elliptical filter	On
Routine		Mode	Inplane
Slice group 1	7	Geometry	
Slices Dist factor	7	Multi-slice mode	Sequential
Dist. factor Position	200 % L0.0 A20.0 F1.0	Series	Interleaved
Orientation			
Phase enc. dir.	Sagittal A >> P	Saturation mode	Standard
Phase enc. dir. Rotation	A >> P 0.00 deg	Special sat.	None
	0.00 deg		
Slice group 2 Slices	1	Tim CT mode	Off
Dist. factor	20 %	System	
Position	20 % R5.4 A35.1 H0.2	Body	Off
Orientation	Transversal	HEP	On
Phase enc. dir.	A >> P	HEA	On
Rotation	0.00 deg		
Slice group 3	0.00 deg	Positioning mode	REF
Slices	1	Table position	Н
Dist. factor	20 %	Table position	0 mm
Position	R5.4 A35.1 H0.2	MSMA	S - C - T
Orientation	Coronal	Sagittal	L >> R
Phase enc. dir.	R >> L	Coronal	P >> A
Rotation	0.00 deg	Transversal	F >> H
Phase oversampling	0 %	Save uncombined	Off
FoV read	250 mm	Coil Combine Mode	Sum of Squares
FoV phase	100.0 %	AutoAlign	
Slice thickness	7.0 mm	Auto Coil Select	Default
TR	8.6 ms	Shim mode	Tune up
TE	4.00 ms	Adjust with body coil	Off
Averages	2	Confirm freq. adjustment	Off
Concatenations	9	Assume Silicone	Off
Filter	Distortion Corr.(2D), Prescan	? Ref. amplitude 1H	0.000 V
	Normalize, Elliptical filter	Adjustment Tolerance	Auto
Coil elements	HEA;HEP	Adjust volume	
ı	,	Position	Isocenter
Contrast	0	- Orientation	Transversal
TD	0 ms	Rotation	0.00 deg
MTC	Off	R >> L	350 mm
Magn. preparation	None	A >> P	263 mm
Flip angle	20 deg	F >> H	350 mm
Fat suppr.	None	1	
Water suppr.	None	Physio	N.
SWI	Off	1st Signal/Mode	None
Averaging mode	Short term	Segments	1
Reconstruction	Magnitude	Tagging	None
Measurements	1	Dark blood	Off
Multiple series	Each measurement		
•	-	Resp. control	Off
Resolution	050	- Inline	
Base resolution	256	1/+	

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\PROTO\IMAGEN\imagen, cenir\ADNI MPRAGE

Draw aution		Prescan Normalize	On
Properties	-0"	- Normalize	Off
Prio Recon	Off	B1 filter	Off
Before measurement		Raw filter	Off
After measurement	0.5	Elliptical filter	Off
Load to viewer	On O#	Coomatry	
Inline movie	Off	Geometry	Cinale abot
Auto store images	On Off	Multi-slice mode	Single shot Interleaved
Load to stamp segments	Off	Series	interieaved
Load images to graphic	Oli	Custom	
segments Auto open inline display	Off	System	0"
Start measurement without	On	Body	Off
further preparation	Oli	HEP HEA	On
Wait for user to start	On	ПЕА	On
Start measurements	single	Positioning mode	ISO
Start measurements	Single	Table position	Н
outine		Table position	9 mm
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	L >> R
Dist. factor	50 %	Coronal	P >> A
Position	L2.5 A26.6 H9.0	Transversal	F >> H
Orientation	S > T3.5	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Sum of Squares
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	China mada	Ctandard
Slices per slab	160	Shim mode	Standard
FoV read	280 mm	Adjust with body coil	Off Off
FoV phase	93.8 %	Confirm freq. adjustment Assume Silicone	Off
Slice thickness	1.10 mm		
TR	2300 ms	? Ref. amplitude 1H	0.000 V
TE	2.93 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume Position	105 400 0110 0
Concatenations	1		L2.5 A26.6 H9.0
Filter	Distortion Corr.(2D), Prescan	Orientation	S > T3.5
	Normalize	Rotation	0.00 deg
Coil elements	HEA;HEP	F >> H	280 mm
contrast		A >> P	263 mm
Magn. preparation	Non-sel. IR	. R >> L	176 mm
TI	900 ms	Physio	
Flip angle	9 deg	1st Signal/Mode	None
Fat suppr.	None		
Water suppr.	None	Dark blood	Off
		Resp. control	Off
Averaging mode	Long term	•	
Reconstruction	Magnitude	Inline	
Measurements	1	Subtract	Off
Multiple series	Off	Std-Dev-Sag	Off
esolution		Std-Dev-Cor	Off
Base resolution	256	Std-Dev-Tra	Off
	256 100 %	Std-Dev-Time	Off
Phase resolution		MIP-Sag	Off
Slice resolution	100 %	MIP-Cor	Off
Phase partial Fourier	Off Off	MIP-Tra	Off
Slice partial Fourier	Off	MIP-Time	Off
Interpolation	Off	Save original images	On
PAT mode	None		
Matrix Coil Mode	CP	Sequence	On
		Introduction	On 2D
Image Filter	Off	Dimension	3D
Distortion Corr.	On	Elliptical scanning	Off
Mode	2D	Asymmetric echo	Off
Unfiltered images	Off	Bandwidth	240 Hz/Px
Unfiltered images	Off	Flow comp.	No
		Echo spacing	6.9 ms

 RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

\\USER\PROTO\IMAGEN\imagen, cenir\EPI faces

TA: 5:59 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Series	Descending
Prio Recon	Off	Special sat.	None
Before measurement		System	
After measurement	_	Body	Off
Load to viewer	On	HEP	On
Inline movie	Off	HEA	On
Auto store images	On Off		-
Load to stamp segments Load images to graphic	Off Off	Positioning mode	ISO
segments	Oli	Table position	H
Auto open inline display	Off	Table position MSMA	25 mm S - C - T
Start measurement without	On		L >> R
further preparation	0.11	Sagittal Coronal	L >> K P >> A
Wait for user to start	On	Transversal	F >> H
Start measurements	single	Coil Combine Mode	Sum of Squares
ı	3.1.9.0	AutoAlign	
Routine		Auto Coil Select	Default
Slice group 1	10		
Slices Dist. factor	40 42 %	Shim mode	Standard
Position	42 % L2.0 A7.9 H24.7	Adjust with body coil	Off
Orientation	T > C-15.0 > S-5.1	Confirm freq. adjustment	Off
Phase enc. dir.	P >> A	Assume Silicone	Off
Rotation	180.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance Adjust volume	Auto
FoV read	220 mm	Position	L2.0 A7.9 H24.7
FoV phase	100.0 %	Orientation	T > C-15.0 > S-5.1
Slice thickness	2.4 mm	Rotation	180.00 deg
TR	2200 ms	R >> L	220 mm
TE	30 ms	A >> P	220 mm
Averages	1	F >> H	136 mm
Concatenations	1	1	
Filter	Prescan Normalize	Physio	Mana
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast		BOLD	
MTC	Off	GLM Statistics	Off
Flip angle	75 deg	Dynamic t-maps	Off
Fat suppr.	Fat sat.	Starting ignore meas	0
		Ignore after transition	0
Averaging mode	Long term	Model transition states	Off
Reconstruction Measurements	Magnitude 160	Temp. highpass filter	Off
Delay in TR	0 ms	Threshold	4.00
Multiple series	Off	Paradigm size Meas[1]	20 Baseline
•	5 11	Meas[2]	Baseline
Resolution		Meas[3]	Baseline
Base resolution	64	Meas[4]	Baseline
Phase resolution	100 %	Meas[5]	Baseline
Phase partial Fourier	Off	Meas[6]	Baseline
Interpolation	Off	Meas[7]	Baseline
PAT mode	GRAPPA	Meas[8]	Baseline
Accel. factor PE	2	Meas[9]	Baseline
Ref. lines PE	24	Meas[10]	Baseline
Matrix Coil Mode	CP	Meas[11]	Active
Reference scan mode	Separate	Meas[12]	Active
Distortion Corr.	Off	Meas[13]	Active
Unfiltered images	Off	Meas[14]	Active
Prescan Normalize	On	Meas[15]	Active
Raw filter	On	Meas[16]	Active
Elliptical filter	Off	Meas[17]	Active
Hamming	Off	Meas[18]	Active
		Meas[19]	Active
Geometry Multi-slice mode	lata da accad	Meas[20]	Active Off
	Interleaved	Motion correction	UII

Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	2004 Hz/Px
Free echo spacing	On
Echo spacing	0.58 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\PROTO\IMAGEN\imagen, cenir\EPI short MID

TA: 11:07 PAT: 2 Voxel size: 3.4x3.4x2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Series	Descending
Prio Recon	Off	Special sat.	None
Before measurement		System	
After measurement	0.5	Body	Off
Load to viewer	On O#	HEP	On
Inline movie	Off On	HEA	On
Auto store images Load to stamp segments	Off	Desitioning and	
Load images to graphic	Off	Positioning mode	ISO
segments	Oli	Table position Table position	H 25 mm
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	L >> R
further preparation		Coronal	P >> A
Wait for user to start	On	Transversal	F >> H
Start measurements	single	Coil Combine Mode	Sum of Squares
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	40	Shim mode	Standard
Dist. factor	42 %	Adjust with body coil	Off
Position	L2.0 A7.9 H24.7	Confirm freq. adjustment	Off
Orientation	T > C-15.0 > S-5.1	Assume Silicone	Off
Phase enc. dir.	P >> A	? Ref. amplitude 1H	0.000 V
Rotation	180.00 deg	Adjustment Tolerance	Auto
Phase oversampling	0 %	Adjust volume	
FoV read	220 mm	Position	L2.0 A7.9 H24.7
FoV phase	100.0 %	Orientation	T > C-15.0 > S-5.1
Slice thickness	2.4 mm	Rotation	180.00 deg
TR	2200 ms	R >> L	220 mm
ŢE	30 ms	A >> P	220 mm
Averages	1	F >> H	136 mm
Concatenations Filter	। Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
1	112/1,1121	BOLD	
Contrast	0"	GLM Statistics	Off
MTC Flip angle	Off	Dynamic t-maps	Off
Flip angle Fat suppr.	75 deg Fat sat.	Starting ignore meas	0
Γαι δυρρι.	Fai Sai.	Ignore after transition	0
Averaging mode	Long term	Model transition states	Off
Reconstruction	Magnitude	Temp. highpass filter	Off
Measurements	300	Threshold	4.00
Delay in TR	0 ms	Paradigm size	20
Multiple series	Off	Meas[1]	Baseline
Resolution		Meas[2]	Baseline
Base resolution	64	Meas[3]	Baseline
Phase resolution	100 %	Meas[4]	Baseline Baseline
Phase partial Fourier	Off	Meas[5] Meas[6]	Baseline
Interpolation	Off	Meas[7]	Baseline
PAT mode	GRAPPA	Meas[8]	Baseline
Accel. factor PE	2	Meas[9]	Baseline
Ref. lines PE	24	Meas[10]	Baseline
Matrix Coil Mode	CP	Meas[11]	Active
Reference scan mode	Separate	Meas[12]	Active
		Meas[13]	Active
Distortion Corr.	Off Off	Meas[14]	Active
Unfiltered images Prescan Normalize	On	Meas[15]	Active
Raw filter	On	Meas[16]	Active
Elliptical filter	Off	Meas[17]	Active
Hamming	Off	Meas[18]	Active
	÷	Meas[19]	Active
Geometry		Meas[20]	Active
Multi-slice mode	Interleaved	Motion correction	Off

Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	2004 Hz/Px
Free echo spacing	On
Echo spacing	0.58 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\PROTO\IMAGEN\imagen, cenir\DTI

TA: 9:45 PAT: 2 Voxel size: 2.4×2.4×2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

Properties		Series	Interleaved
Prio Recon	Off	Special sat.	None
Before measurement			
After measurement		System	
Load to viewer	On	Body	Off
Inline movie	Off	HEP	On
Auto store images	On	HEA	On
Load to stamp segments	Off	Positioning mode	REF
Load images to graphic	Off	Table position	KEF H
segments	_	Table position	0 mm
Auto open inline display	On	MSMA	S - C - T
Start measurement without	On	Sagittal	R >> L
further preparation		Coronal	A >> P
Wait for user to start	On	Transversal	F >> H
Start measurements	single	Coil Combine Mode	Adaptive Combine
Routine		AutoAlign	
Slice group 1		Auto Coil Select	Default
Slices	60		
Dist. factor	0 %	Shim mode	Standard
Position	L1.8 A13.9 H16.9	Adjust with body coil	Off
Orientation	Transversal	Confirm freq. adjustment	Off
Phase enc. dir.	P >> A	Assume Silicone	Off
Rotation	180.00 deg	? Ref. amplitude 1H	0.000 V
Phase oversampling	0 %	Adjustment Tolerance	Auto
FoV read	307 mm	Adjust volume	
FoV phase	100.0 %	Position	L1.8 A13.9 H16.9
Slice thickness	2.4 mm	Orientation	Transversal
TR	15000 ms	Rotation	180.00 deg
TE	104 ms	R >> L	307 mm
Averages	1	A >> P	307 mm
Concatenations	1	F >> H	144 mm
Filter	Raw filter, Prescan Normalize	Physio	
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast			Off
MTC	Off	Resp. control	Oli
Magn. preparation	None	Diff	
Fat suppr.	Fat sat.	Diffusion mode	Free
		Diff. weightings	1
Averaging mode	Long term	b-value	1300 s/mm ²
Reconstruction	Magnitude	Diff. weighted images	On
Delay in TR	0 ms	Trace weighted images	Off
Multiple series	Off	Average ADC maps	Off
Resolution		Individual ADC maps	Off
Base resolution	128	FA maps	Off
Phase resolution	100 %	Mosaic	Off
Phase partial Fourier	Off	Tensor	Off
Interpolation	Off	Noise level	40
PAT mode	GRAPPA	Diff. directions	36
I A I IIIOUE	MAREA	0	
		Sequence	
Accel. factor PE	2	Sequence Introduction	Off
Accel. factor PE Ref. lines PE	2 24		Off 2056 Hz/Px
Accel. factor PE Ref. lines PE Matrix Coil Mode	2 24 Auto (Triple)	Introduction Bandwidth	_
Accel. factor PE Ref. lines PE	2 24	Introduction	2056 Hz/Px
Accel. factor PE Ref. lines PE Matrix Coil Mode	2 24 Auto (Triple)	Introduction Bandwidth Free echo spacing Echo spacing	2056 Hz/Px On 0.58 ms
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode	2 24 Auto (Triple) Separate	Introduction Bandwidth Free echo spacing Echo spacing EPI factor	2056 Hz/Px On 0.58 ms 128
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr.	2 24 Auto (Triple) Separate Off	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize	2 24 Auto (Triple) Separate Off On	Introduction Bandwidth Free echo spacing Echo spacing EPI factor	2056 Hz/Px On 0.58 ms 128
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Intensity Slope	2 24 Auto (Triple) Separate Off On On	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Intensity	2 24 Auto (Triple) Separate Off On On Strong	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Intensity Slope	2 24 Auto (Triple) Separate Off On On Strong 64	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Intensity Slope Elliptical filter Hamming	2 24 Auto (Triple) Separate Off On On Strong 64 Off	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal
Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode Distortion Corr. Prescan Normalize Raw filter Intensity Slope Elliptical filter	2 24 Auto (Triple) Separate Off On On Strong 64 Off	Introduction Bandwidth Free echo spacing Echo spacing EPI factor RF pulse type	2056 Hz/Px On 0.58 ms 128 Normal

\\USER\PROTO\IMAGEN\imagen, cenir\B0 map

TA: 0:45 V	oxel size: 4.0×4.0×4.0 mm	Rel. SNR: 1.00 SIEMENS: (gre_field_mapping
Properties		Special sat.	None
Prio Recon	Off	System	
Before measurement			Off
After measurement		Body	
Load to viewer	On	HEP	On
Inline movie	Off	HEA	On
Auto store images	On	Positioning mode	FIX
Load to stamp segments	Off	Table position	Н
Load images to graphic	Off	Table position	25 mm
segments		MSMA	S-C-T
Auto open inline display	On	Sagittal	L >> R
Start measurement without	On	Coronal	P >> A
further preparation		Transversal	F >> H
Wait for user to start	On	Save uncombined	Off
Start measurements	single	Coil Combine Mode	Adaptive Combine
	5g.0	AutoAlign	
Routine		Auto Aligit Auto Coil Select	Default
Slice group 1		Auto Coli Select	Delauit
Slices	36	Shim mode	Standard
Dist. factor	0 %	Adjust with body coil	Off
Position	L2.0 A7.9 H24.7	Confirm freq. adjustment	Off
Orientation	T > C-15.0 > S-5.1	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 rolume	, 1010
FoV read	256 mm	Position	L2.0 A7.9 H24.7
FoV phase	87.5 %	Orientation	T > C-15.0 > S-5.1
Slice thickness	4.0 mm	Rotation	90.00 deg
TR	378 ms	A >> P	256 mm
TE 1	4.63 ms	R >> L	224 mm
TE 2	7.09 ms		
Averages	7.09 ms 1	F >> H	144 mm
Concatenations	1	Sequence	
Filter	Raw filter	Introduction	On
Coil elements	HEA;HEP	Dimension	2D
Con elements	TILA,TILF	Asymmetric echo	Off
Contrast		Contrasts	2
MTC	Off	Bandwidth	260 Hz/Px
Flip angle	40 deg	Flow comp.	Yes
Fat suppr.	None		
	01 44	RF pulse type	Normal
Averaging mode	Short term	Gradient mode	Fast
Reconstruction	Magn./Phase	RF spoiling	On
Measurements	1	·	
Multiple series	Each measurement		
Resolution			
Base resolution	64	<u></u>	
Phase resolution	100 %		
Phase partial Fourier	Off		
Interpolation	Off		
Matrix Coil Mode	Auto (CP)		
Image Filter	Off		
Distortion Corr.	Off		
Prescan Normalize	Off		
Normalize	Off		
B1 filter	Off		
Raw filter	On		
Intensity	Medium		
Slope	48		
Elliptical filter	Off		
Geometry			
Multi-slice mode	Interleaved		
Series	Interleaved		

Interleaved

Series

\\USER\PROTO\IMAGEN\imagen, cenir\EPI rest

TA: 6:58 PAT: 2 Voxel size: 3.4×3.4×2.4 mm Rel. SNR: 1.00 SIEMENS: ep2d_bold

Properties		Series	Descending
Prio Recon	Off	Special sat.	None
Before measurement		System	
After measurement		Body	Off
Load to viewer	On O"	HEP	On
Inline movie	Off	HEA	On
Auto store images	On Off	D '''	100
Load to stamp segments Load images to graphic	Off	Positioning mode	ISO
segments	Oli	Table position Table position	H 25 mm
Auto open inline display	Off	MSMA	S - C - T
Start measurement without	On	Sagittal	L >> R
further preparation	•	Coronal	P >> A
Wait for user to start	On	Transversal	F >> H
Start measurements	single	Coil Combine Mode	Sum of Squares
Douting	ŭ	AutoAlign	
Routine		Auto Coil Select	Default
Slice group 1	40		
Slices Dist. factor	40 42 %	Shim mode	Standard
Position	42 % L2.0 A7.9 H24.7	Adjust with body coil	Off
Orientation	T > C-15.0 > S-5.1	Confirm freq. adjustment	Off Off
Phase enc. dir.	P >> A	Assume Silicone	Off
Rotation	180.00 deg	? Ref. amplitude 1H Adjustment Tolerance	0.000 V
Phase oversampling	0 %	Adjust volume	Auto
FoV read	220 mm	Position	L2.0 A7.9 H24.7
FoV phase	100.0 %	Orientation	T > C-15.0 > S-5.1
Slice thickness	2.4 mm	Rotation	180.00 deg
TR	2200 ms	R >> L	220 mm
TE	30 ms	A >> P	220 mm
Averages	1	F >> H	136 mm
Concatenations	1	l	
Filter	Prescan Normalize	Physio Physio	Nana
Coil elements	HEA;HEP	1st Signal/Mode	None
Contrast		BOLD	
MTC	Off	GLM Statistics	Off
Flip angle	75 deg	Dynamic t-maps	Off
Fat suppr.	Fat sat.	Starting ignore meas	0
		Ignore after transition	0
Averaging mode	Long term	Model transition states	Off
Reconstruction Measurements	Magnitude 187	Temp. highpass filter	Off
Delay in TR	0 ms	Threshold	4.00
Multiple series	Off	Paradigm size Meas[1]	20 Baseline
•	OII	Meas[2]	Baseline
Resolution		Meas[3]	Baseline
Base resolution	64	Meas[4]	Baseline
Phase resolution	100 %	Meas[5]	Baseline
Phase partial Fourier	Off	Meas[6]	Baseline
Interpolation	Off	Meas[7]	Baseline
PAT mode	GRAPPA	Meas[8]	Baseline
Accel. factor PE	2	Meas[9]	Baseline
Ref. lines PE	24	Meas[10]	Baseline
Matrix Coil Mode	CP	Meas[11]	Active
Reference scan mode	Sonarato	Meas[12]	Active
	Separate		
Distortion Corr		Meas[13]	Active
Distortion Corr.	Off	Meas[13] Meas[14]	Active
Unfiltered images	Off Off	Meas[13] Meas[14] Meas[15]	Active Active
Unfiltered images Prescan Normalize	Off Off On	Meas[13] Meas[14] Meas[15] Meas[16]	Active Active Active
Unfiltered images Prescan Normalize Raw filter	Off Off On On	Meas[13] Meas[14] Meas[15] Meas[16] Meas[17]	Active Active Active Active
Unfiltered images Prescan Normalize Raw filter Elliptical filter	Off Off On On Off	Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18]	Active Active Active Active Active Active
Unfiltered images Prescan Normalize Raw filter Elliptical filter Hamming	Off Off On On	Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18] Meas[19]	Active Active Active Active Active Active Active
Unfiltered images Prescan Normalize Raw filter Elliptical filter	Off Off On On Off	Meas[13] Meas[14] Meas[15] Meas[16] Meas[17] Meas[18]	Active Active Active Active Active Active

Spatial filter	Off
Sequence	
Introduction	Off
Bandwidth	2004 Hz/Px
Free echo spacing	On
Echo spacing	0.58 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\PROTO\IMAGEN\imagen, cenir\despot1_SPGR_TR67_FA04_SAG_AP

USER: despot1_vb17_023

Voxel size: 1.7x1.7x2.0 mm Rel. SNR: 1.00

TA. 1.09	VOXel Size. 1.7×1.7×2.0 III	IIII Kei. SINK. 1.00 USEK. de	5p0t1_v017_025
Properties		Series	Ascending
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement		HEP	On
Load to viewer	On	HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Desidencia a secolo	
Start measurements	single	Positioning mode	REF
Douting	•	Table position	H
Routine		Table position	0 mm
Slab group 1	4	MSMA	S-C-T
Slabs	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Tune up
Slices per slab	80	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	6.7 ms	Adjustment Tolerance	Auto
TE	2.3 ms	Adjust volume	Adio
Averages	1	Position	Isocenter
Concatenations	1	Orientation	Transversal
Filter	Raw filter	Rotation	0.00 deg
Coil elements	HEA;HEP	R >> L	350 mm
Contrast		A >> P	263 mm
Flip angle	4 deg	——	350 mm
i lip aligie	+ ueg		330 11111
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Inline	
Multiple series	Off		0#
Resolution		Subtract	Off
	120	Std-Dev-Sag	Off
Base resolution	128 100 %	Std-Dev-Cor	Off Off
Phase resolution		Std-Dev-Tra	Off
Slice resolution	100 %	Std-Dev-Time	Off Off
Phase partial Fourier	Off Off	MIP-Sag	Off
Slice partial Fourier	Off Off	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
Matrix Coil Mode	Auto (CP)	MIP-Time	Off
		Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Dimension	3D
Normalize	Off	Elliptical scanning	Off
B1 filter	Off	Contrasts	1
Raw filter	On	Bandwidth	420 Hz/Px
Intensity	Weak		
Slope	25	RF pulse type	Low SAR
Elliptical filter	Off	Gradient mode	Fast*
Geometry		RF spoiling	On
Multi-slice mode	Sequential	IR Mode	Off
I wan shoe mode	Joquontiai	18 Wode 13/+	Oil

Dummy pulses	2
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	36.7 deg
Gradient Spoiler Factor	2.0
Scale factor	2.0
Baby Mode	Off
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot1_SPGR_TR67_FA18_SAG_AP

USER: despot1_vb17_023

Voxel size: 1.7×1.7×2.0 mm Rel. SNR: 1.00

			<u> </u>
Properties		Series	Ascending
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement		HEP	On
Load to viewer	On	HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
1	g.:	Table position	Н
Routine		Table position	0 mm
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %		
Slices per slab	80	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
		? Ref. amplitude 1H	0.000 V
TR	6.7 ms	Adjustment Tolerance	Auto
ŢE .	2.3 ms	Adjust volume	
Averages	1	Position	Isocenter
Concatenations	1	Orientation	Transversal
Filter	Raw filter	Rotation	0.00 deg
Coil elements	HEA;HEP	R >> L	350 mm
Contrast		A >> P	263 mm
Flip angle	18 deg	—	350 mm
		I	
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Inline	
Multiple series	Off	Subtract	Off
Resolution		Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Sag Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Col Std-Dev-Tra	Off
		= · · · · · · · · · · · · · · · · · · ·	
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off Off	MIP-Sag	Off
Slice partial Fourier	Off	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
Matrix Coil Mode	Auto (CP)	MIP-Time	Off
	· · · · · · · · · · · · · · · · · · ·	Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Dimension	3D
Normalize	Off	Elliptical scanning	Off
B1 filter	Off	Contrasts	1
Raw filter	On	Bandwidth	420 Hz/Px
Intensity	Weak		120 112/1 A
Slope	25	RF pulse type	Low SAR
Elliptical filter	Off	Gradient mode	Fast*
Geometry		RF spoiling	On
Geometry	Cognential	ID Made	O#
Multi-slice mode	Sequential	IR Mode	Off

Dummy pulses	2
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	36.7 deg
Gradient Spoiler Factor	2.0
Scale factor	2.0
Baby Mode	Off
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot1_IRSPGR_TR67_FA5_SAG_AP

USER: despot1_vb17_023

Voxel size: 1.7x1.7x2.0 mm Rel. SNR: 1.00

		Series	Ascending
Prior Page	0#	ı	Ascerding
Prio Recon	Off	System	0"
Before measurement		Body	Off
After measurement	0.5	HEP	On
Load to viewer	On Off	HEA	On Off
Inline movie	Off	SP4	Off
Auto store images	On O"	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments	0"	SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Table position	H
Routine		Table position	0 mm
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	8 - C - 1 R >> L
Dist. factor	20 %	Coronal	K >> L A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Tune up
Slices per slab	80	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm		
TR	6.7 ms	? Ref. amplitude 1H	0.000 V
TE	2.3 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	la a a a mata m
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
Operations		R >> L	350 mm
Contrast		A >> P	263 mm
Flip angle	5 deg	F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	1	
Multiple series	Off	Inline	
	.	Subtract	Off
Resolution		Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off	MIP-Sag	Off
Slice partial Fourier	4/8	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
		MIP-Time	Off
Matrix Coil Mode	Auto (CP)	Save original images	On
Image Filter	Off		
Distortion Corr.	Off	Sequence	0#
Prescan Normalize	Off	Introduction	Off
Normalize	Off	Dimension	3D
B1 filter	Off	Elliptical scanning	Off
Raw filter	On	Contrasts	1
Intensity	Weak	Bandwidth	420 Hz/Px
Slope	25	RF pulse type	Low SAR
. JIUUU			
	∩ ff		F361
Elliptical filter	Off	Gradient mode	Fast*
	Off Sequential	RF spoiling	Past" On

Inversion time	450 ms
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Spoil Increment	36.7 deg
Gradient Spoiler Factor	2.0
Scale factor	2.0
Baby Mode	Off
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
' '	

\\USER\PROTO\IMAGEN\imagen, cenir\despot2 SSFP FA60

Rel. SNR: 1.00

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm

TA: 1:21

Series Ascending **Properties** Prio Recon Off System Body Off Before measurement HEP After measurement On On On Load to viewer HEA Inline movie Off SP4 Off Auto store images On SP2 Off Load to stamp segments Off SP8 Off Load images to graphic SP6 Off Off segments SP3 Off Auto open inline display Off SP1 Off Start measurement without On SP7 Off SP5 further preparation Off Wait for user to start Off Positioning mode FIX Start measurements single Table position Н Routine Table position 0 mm Slab group 1 MSMA S - C - T Slabs Sagittal 1 R >> L Dist. factor 20 % Coronal A >> P Position R3.6 A17.5 F21.7 Transversal F >> H Orientation Sagittal Save uncombined Off Adaptive Combine Phase enc. dir. A >> P Coil Combine Mode Rotation 0.00 deg AutoAlign Phase oversampling 0 % **Auto Coil Select** Default Slice oversampling 0.0 % Shim mode Tune up Slices per slab 80 Adjust with body coil Off FoV read 220 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 V TR 7.5 ms Adjustment Tolerance Auto ΤE 3.8 ms Adjust volume **Averages** Position Isocenter Concatenations Orientation Transversal Raw filter Filter Rotation 0.00 deg Coil elements HEA;HEP R >> L 350 mm Contrast A >> P 263 mm Flip angle 60 dea F >> H 350 mm Averaging mode Short term Physio Reconstruction Magnitude 1st Signal/Mode None Measurements Inline Multiple series Off Subtract Off Resolution Std-Dev-Sag Off 128 Base resolution Std-Dev-Cor Off 100 % Phase resolution Std-Dev-Tra Off 100 % Slice resolution Std-Dev-Time Off Phase partial Fourier Off MIP-Sag Off Slice partial Fourier Off MIP-Cor Off MIP-Tra Interpolation Off Off MIP-Time Off Matrix Coil Mode Auto (CP) Save original images On Image Filter Off Sequence Distortion Corr. Off Introduction Off Prescan Normalize Off Dimension 3D Normalize Off Elliptical scanning Off B1 filter Off Contrasts Raw filter On Bandwidth 600 Hz/Px Intensity Weak RF pulse type Slope 25 Low SAR Elliptical filter Off Gradient mode Fast* RF spoiling Off Geometry Multi-slice mode Sequential IR Mode Off

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	0 deg
Baby Mode	Off
Scale factor	2.0
 TX/RX Nucleus TX/RX delta frequency TX Nucleus TX delta frequency	1H 0 Hz None 0 Hz
	· · ·=

\\USER\PROTO\IMAGEN\imagen, cenir\despot2_SSFP_FA60_p180

Rel. SNR: 1.00

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm

		Series	Ascending
Properties Prio Recon	Off	System	· ····································
Before measurement	Oli	Body	Off
After measurement		HEP	On
Load to viewer	On	I HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Positioning mode	H H
Routine		Table position Table position	0 mm
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	R >> L A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0.00 deg	Auto Coil Select	Default
Slice oversampling	0.0 %	Auto Goli Gelect	
Slices per slab	80	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	7.5 ms	? Ref. amplitude 1H	0.000 V
TE	3.8 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
Countries		R >> L	350 mm
Contrast	00 da	A >> P	263 mm
Flip angle	60 deg	F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	Inline	
Multiple series	Off	Subtract	Off
Resolution		Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Sag Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Col	Off
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off	MIP-Sag	Off
Slice partial Fourier	Off	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
		MIP-Time	Off
Matrix Coil Mode	Auto (CP)	Save original images	On
Image Filter	Off		
Distortion Corr.	Off	Sequence	
Prescan Normalize	Off	Introduction	Off
Normalize	Off	Dimension	3D
B1 filter	Off	Elliptical scanning	Off
Raw filter	On	Contrasts	1
Intensity	Weak	Bandwidth	600 Hz/Px
Slope	25	RF pulse type	Low SAR
Elliptical filter	Off	Gradient mode	Fast*
•	J.,	RF spoiling	Off
Geometry			
Multi-slice mode	Sequential	IR Mode	Off
		21/∔	

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off
Scale factor	2.0
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot2_SSFP_FA35

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm Rel. SNR: 1.00

7731 1121	VOXCI 3120. 1.7 × 1.7 × 2.0 111111	TKOL CIVIC. 1.00 COLIN. GO.	
Properties		Series	Ascending
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement		HEP	On
Load to viewer	On	HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off		
Start measurements	single	Positioning mode	FIX
1	9	Table position	Н
Routine		Table position	0 mm
Slab group 1		MSMA	S - C - T
Slabs	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Chim made	Tuno un
Slices per slab	80	Shim mode	Tune up
FoV read	220 mm	Adjust with body coil	Off
FoV phase	100.0 %	Confirm freq. adjustment	Off
Slice thickness	2.00 mm	Assume Silicone	Off
TR	7.5 ms	? Ref. amplitude 1H	0.000 V
TE	3.8 ms	Adjustment Tolerance	Auto
Averages	1	Adjust volume	
Concatenations	1	Position	Isocenter
Filter	Raw filter	Orientation	Transversal
Coil elements	HEA;HEP	Rotation	0.00 deg
Combinat		R >> L	350 mm
Contrast	05.1	A >> P	263 mm
Flip angle	35 deg	F >> H	350 mm
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	•	
Multiple series	Off	Inline	
•		Subtract	Off
Resolution	100	_ Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off	MIP-Sag	Off
Slice partial Fourier	Off	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
Matrix Coil Mode	Auto (CP)	MIP-Time	Off
······································		Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Dimension	3D
Normalize	Off	Elliptical scanning	Off
B1 filter	Off	Contrasts	1
Raw filter	On	Bandwidth	
Intensity	Weak	Danuwiuiii	600 Hz/Px
Slope	25	RF pulse type	Low SAR
Elliptical filter	Off	Gradient mode	Fast*
•		RF spoiling	Off
Geometry	O a muse of the l		
Multi-slice mode	Sequential	IR Mode	Off
		23/⊥	

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	0 deg
Baby Mode	Off
Scale factor	2.0
 TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot2_SSFP_FA35_p180

Rel. SNR: 1.00

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm

TA: 1:21

Series Ascending **Properties** Prio Recon Off System Body Off Before measurement HEP After measurement On On On Load to viewer HEA Inline movie Off SP4 Off Auto store images On SP2 Off Load to stamp segments Off SP8 Off Load images to graphic SP6 Off Off segments SP3 Off Auto open inline display Off SP1 Off Start measurement without On SP7 Off SP5 further preparation Off Wait for user to start Off Positioning mode FIX Start measurements single Table position Н Routine Table position 0 mm Slab group 1 MSMA S - C - T Slabs Sagittal 1 R >> L Dist. factor 20 % Coronal A >> P Position R3.6 A17.5 F21.7 Transversal F >> H Orientation Sagittal Save uncombined Off Adaptive Combine Phase enc. dir. A >> P Coil Combine Mode Rotation 0.00 deg AutoAlign Phase oversampling 0 % **Auto Coil Select** Default Slice oversampling 0.0 % Shim mode Tune up Slices per slab 80 Adjust with body coil Off FoV read 220 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 V TR 7.5 ms Adjustment Tolerance Auto ΤE 3.8 ms Adjust volume **Averages** Position Isocenter Concatenations Orientation Transversal Raw filter Filter Rotation 0.00 deg Coil elements HEA;HEP R >> L 350 mm Contrast A >> P 263 mm Flip angle 35 dea F >> H 350 mm Averaging mode Short term Physio Reconstruction Magnitude 1st Signal/Mode None Measurements Inline Multiple series Off Subtract Off Resolution Std-Dev-Sag Off 128 Base resolution Std-Dev-Cor Off 100 % Phase resolution Std-Dev-Tra Off 100 % Slice resolution Std-Dev-Time Off Phase partial Fourier Off MIP-Sag Off Slice partial Fourier Off MIP-Cor Off MIP-Tra Interpolation Off Off MIP-Time Off Matrix Coil Mode Auto (CP) Save original images On Image Filter Off Sequence Distortion Corr. Off Introduction Off Prescan Normalize Off Dimension 3D Normalize Off Elliptical scanning Off B1 filter Off Contrasts Raw filter On Bandwidth 600 Hz/Px Intensity Weak RF pulse type Slope 25 Low SAR Elliptical filter Off Gradient mode Fast* RF spoiling Off Geometry Multi-slice mode Sequential IR Mode Off

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off
Scale factor	2.0
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot2_SSFP_FA15

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm Rel. SNR: 1.00

			-
		Series	Ascending
Properties		'	Ascending
Prio Recon	Off	System	
Before measurement		Body	Off
After measurement	_	HEP	On
Load to viewer	On	HEA	On
Inline movie	Off	SP4	Off
Auto store images	On	SP2	Off
Load to stamp segments	Off	SP8	Off
Load images to graphic	Off	SP6	Off
segments		SP3	Off
Auto open inline display	Off	SP1	Off
Start measurement without	On	SP7	Off
further preparation		SP5	Off
Wait for user to start	Off	Positioning mode	FIX
Start measurements	single	Positioning mode	
Routine		Table position	H 0 mm
		Table position	
Slab group 1	1	MSMA	S-C-T
Slabs	1	Sagittal	R >> L
Dist. factor	20 %	Coronal	A >> P
Position	R3.6 A17.5 F21.7	Transversal	F >> H
Orientation	Sagittal	Save uncombined	Off
Phase enc. dir.	A >> P	Coil Combine Mode	Adaptive Combine
Rotation	0.00 deg	AutoAlign	
Phase oversampling	0 %	Auto Coil Select	Default
Slice oversampling	0.0 %	Shim mode	Tune up
Slices per slab	80	Adjust with body coil	Off
FoV read	220 mm	Confirm freq. adjustment	Off
FoV phase	100.0 %	Assume Silicone	Off
Slice thickness	2.00 mm	? Ref. amplitude 1H	0.000 V
TR	7.5 ms	Adjustment Tolerance	Auto
TE	3.8 ms	Adjust volume	71410
Averages	1	Position	Isocenter
Concatenations	1	Orientation	Transversal
Filter	Raw filter	Rotation	0.00 deg
Coil elements	HEA;HEP	Rotation R >> L	350 mm
Contrast		A >> P	350 mm 263 mm
Flip angle	15 deg	A>> P F>> H	350 mm
ı iip aliyle	10 u c y		330 IIIII
Averaging mode	Short term	Physio	
Reconstruction	Magnitude	1st Signal/Mode	None
Measurements	1	1	
Multiple series	Off	Inline	0"
•		Subtract	Off
Resolution	400	Std-Dev-Sag	Off
Base resolution	128	Std-Dev-Cor	Off
Phase resolution	100 %	Std-Dev-Tra	Off
Slice resolution	100 %	Std-Dev-Time	Off
Phase partial Fourier	Off	MIP-Sag	Off
Slice partial Fourier	Off	MIP-Cor	Off
Interpolation	Off	MIP-Tra	Off
Matrix Coil Mode	Auto (CP)	MIP-Time	Off
······	, (ato (O1)	Save original images	On
Image Filter	Off	Sequence	
Distortion Corr.	Off	Introduction	Off
Prescan Normalize	Off	Dimension	3D
Normalize	Off		Off
B1 filter	Off	Elliptical scanning	1
Raw filter	On	Contrasts Bandwidth	· · · · · · · · · · · · · · · · · · ·
Intensity	Weak	Danuwidth	600 Hz/Px
Slope	25	RF pulse type	Low SAR
Elliptical filter	Off	Gradient mode	Fast*
· ·		RF spoiling	Off
Geometry			
Multi-slice mode	Sequential	IR Mode	Off
		27/+	

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	0 deg
Baby Mode	Off
Scale factor	2.0
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz

\\USER\PROTO\IMAGEN\imagen, cenir\despot2_SSFP_FA15_p180

Rel. SNR: 1.00

USER: despot2_vb17_021

Voxel size: 1.7×1.7×2.0 mm

TA: 1:21

Series Ascending **Properties** Prio Recon Off System Body Off Before measurement HEP After measurement On On On Load to viewer HEA Inline movie Off SP4 Off Auto store images On SP2 Off Load to stamp segments Off SP8 Off Load images to graphic SP6 Off Off segments SP3 Off Auto open inline display Off SP1 Off Start measurement without On SP7 Off SP5 further preparation Off Wait for user to start Off Positioning mode FIX Start measurements single Table position Н Routine Table position 0 mm Slab group 1 MSMA S - C - T Slabs Sagittal 1 R >> L Dist. factor 20 % Coronal A >> P Position R3.6 A17.5 F21.7 Transversal F >> H Orientation Sagittal Save uncombined Off Adaptive Combine Phase enc. dir. A >> P Coil Combine Mode Rotation 0.00 deg AutoAlign Phase oversampling 0 % **Auto Coil Select** Default Slice oversampling 0.0 % Shim mode Tune up Slices per slab 80 Adjust with body coil Off FoV read 220 mm Confirm freq. adjustment Off FoV phase 100.0 % Assume Silicone Off Slice thickness 2.00 mm ? Ref. amplitude 1H 0.000 V TR 7.5 ms Adjustment Tolerance Auto ΤE 3.8 ms Adjust volume **Averages** Position Isocenter Concatenations Orientation Transversal Raw filter Filter Rotation 0.00 deg Coil elements HEA;HEP R >> L 350 mm Contrast A >> P 263 mm Flip angle 15 dea F >> H 350 mm Averaging mode Short term Physio Reconstruction Magnitude 1st Signal/Mode None Measurements Inline Multiple series Off Subtract Off Resolution Std-Dev-Sag Off 128 Base resolution Std-Dev-Cor Off 100 % Phase resolution Std-Dev-Tra Off 100 % Slice resolution Std-Dev-Time Off Phase partial Fourier Off MIP-Sag Off Slice partial Fourier Off MIP-Cor Off MIP-Tra Interpolation Off Off MIP-Time Off Matrix Coil Mode Auto (CP) Save original images On Image Filter Off Sequence Distortion Corr. Off Introduction Off Prescan Normalize Off Dimension 3D Normalize Off Elliptical scanning Off B1 filter Off Contrasts Raw filter On Bandwidth 600 Hz/Px Intensity Weak RF pulse type Slope 25 Low SAR Elliptical filter Off Gradient mode Fast* RF spoiling Off Geometry Multi-slice mode Sequential IR Mode Off

Dummy pulses	500
Incremented FA Mode	Off
RF pulse duration	0.8 ms
RF pulse TBW	3.0
RF Phase Increment	180 deg
Baby Mode	Off
Scale factor	2.0
TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz