\\USEF	R\projects\imagen_20091016	S VB17\imagen, session 1\	localizer
	AT: Off Voxel size: 1.1×1.0×	•	SIEMENS: gre
		I Di cir	0"
Properties		Phase partial Fourier Interpolation	Off On
Prio Recon	Off		OII
Before measurement		PAT mode	None
After measurement		Matrix Coil Mode	CP
Load to viewer Inline movie	On Off	Image Filter	Off
Auto store images	On	Distortion Corr.	On
Load to stamp segments	Off	Mode	2D
Load images to graphic	Off	Unfiltered images	Off
segments		Unfiltered images	Off
Auto open inline display	Off	Prescan Normalize Normalize	On Off
Start measurement without	Off	B1 filter	Off
further preparation	0"	Raw filter	Off
Wait for user to start Start measurements	Off	Elliptical filter	On
	single	Mode	Inplane
Routine		Geometry	
Slice group 1		Multi-slice mode	Sequential
Slices	3	Series	Interleaved
Dist. factor Position	114 % Isocenter		
Orientation	Sagittal	Saturation mode	Standard
Phase enc. dir.	A >> P	Special sat.	None
Rotation	0.00 deg	Set-n-Go Protocol	Off
Slice group 2		Table position	H
Slices	1	Table position	0 mm
Dist. factor	20 %	Inline Composing	Off
Position	Isocenter		-
Orientation	Transversal	System	Off
Phase enc. dir. Rotation	A >> P 0.00 deg	Body HEP	On
Slice group 3	0.00 deg	HEA	On
Slices	1		
Dist. factor	20 %	Positioning mode	REF
Position	Isocenter	MSMA Societal	S - C - T L >> R
Orientation	Coronal	Sagittal Coronal	L >> K P >> A
Phase enc. dir.	R >> L	Transversal	F >> H
Rotation	0.00 deg	Coil Combine Mode	Sum of Squares
Phase oversampling	0 %	AutoAlign	·
FoV read FoV phase	250 mm 100.0 %	Auto Coil Select	Default
Slice thickness	7.0 mm	Shim mode	Tune up
TR	8.6 ms	Adjust with body coil	Off
TE	4.00 ms	Confirm freq. adjustment	Off
Averages	2	Assume Silicone	Off
Concatenations	5	? Ref. amplitude 1H	0.000 V
Filter	Distortion Corr.(2D), Prescan	Adjustment Tolerance	Auto
Coil olomanta	Normalize, Elliptical filter	Adjust volume	laccantar
Coil elements	HEA;HEP	Position Orientation	Isocenter Transversal
Contrast		Rotation	0.00 deg
TD	0 ms	R >> L	350 mm
MTC Magn proporation	Off	A >> P	263 mm
Magn. preparation Flip angle	None	F >> H	350 mm
Fat suppr.	20 deg None	Physio	
Water suppr.	None	1st Signal/Mode	None
		Segments	1
Averaging mode	Short term		Nana
Reconstruction Measurements	Magnitude	Tagging Dark blood	None Off
Multiple series	Each measurement	Daik 51000	OII
1		Resp. control	Off
Resolution	256	Inline	
Base resolution Phase resolution	256 90 %	Subtract	Off

Phase resolution

90 %

Subtract

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

Ocquence	
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\projects\imagen\_20091016\_VB17\imagen, session 1\T2

TA: 2:46	PAT: 2 Voxel size: 0.8×0.8×4	I.0 mm Rel. SNR: 1.00 S	SIEMENS: tse
		Unfiltered images	Off
Properties		- Unfiltered images	Off
Prio Recon	Off	Prescan Normalize	On
Before measurement		Normalize	Off
After measurement		B1 filter	Off
Load to viewer	On	Raw filter	Off
Inline movie	Off	Elliptical filter	Off
Auto store images	On		<b></b>
Load to stamp segments	Off	Geometry	
Load images to graphic	Off	Multi-slice mode	Interleaved
segments		Series	Interleaved
Auto open inline display	Off	Special sat.	None
Start measurement without	On	Opeciai sat.	
further preparation		0-4 - 0- D-4	O#
Wait for user to start	Off	Set-n-Go Protocol	Off
Start measurements	single	Table position	H
Routine		Table position	11 mm
		Inline Composing	Off
Slice group 1 Slices	36	System	
Dist. factor	0 %	Body	Off
Position	R4.7 A3.1 H10.8	HEP	On
		HEA	On
Orientation	T > C-14.9		
Phase enc. dir.	L >> R	Positioning mode	ISO
Rotation	-90.00 deg	MSMA	S - C - T
Phase oversampling	0 %	Sagittal	L >> R
FoV read	240 mm	Coronal	P >> A
FoV phase	75.0 %	Transversal	F >> H
Slice thickness	4.0 mm	Coil Combine Mode	Sum of Squares
TR	4380 ms	AutoAlign	· ·
TE	61 ms	Auto Coil Select	Default
Averages	1		
Concatenations	2	Shim mode	Standard
Filter	Distortion Corr.(2D), Prescan	Adjust with body coil	Off
	Normalize	Confirm freq. adjustment	Off
Coil elements	HEA;HEP	Assume Silicone	Off
Contrast		? Ref. amplitude 1H	0.000 V
TD	0.0 mg	Adjustment Tolerance	Auto
	0.0 ms	Adjust volume	
MTC	Off	Position	R4.7 A3.1 H10.8
Magn. preparation	None	Orientation	T > C-14.9
Flip angle	180 deg	Rotation	-90.00 deg
Fat suppr.	None	A >> P	240 mm
Water suppr.	None	R >> L	180 mm
Restore magn.	On	F >> H	144 mm
Averaging mode	Short term	Physic	
Reconstruction	Magnitude	Physio	None
Measurements	1	1st Signal/Mode	None
Multiple series	Each measurement	Dark blood	Off
1			
Resolution		Resp. control	Off
Base resolution	320	Inline	
Phase resolution	100 %	Subtract	Off
Phase partial Fourier	Off	Std-Dev-Sag	Off
Trajectory	Cartesian	Std-Dev-Cor	Off
Interpolation	On	Std-Dev-Tra	Off
PAT mode	GRAPPA	Std-Dev-Time	Off
		MIP-Sag	Off
Accel. factor PE	2	MIP-Cor	Off
Ref. lines PE	30	MIP-Tra	Off
Matrix Coil Mode	CP		
Reference scan mode	Integrated	MIP-Time	Off
Image Filter	Off	Save original images	On
Distortion Corr.	On	Common	
Mode	2D	Sequence	011
	= <del>-</del>	Introduction	Off

Dimension 2D
Compensate T2 decay On
Reduce Motion Sens. Off
Contrasts 1

Bandwidth 195 Hz/Px
Flow comp. No
Allowed delay 120 s
Echo spacing 10.2 ms

Define Turbo factor

Turbo factor 15
Echo trains per slice 9
RF pulse type Normal
Gradient mode Fast

\\USER\projects\imagen\_20091016\_VB17\imagen, session 1\FLAIR

TA: 2:24 F	PAT: Off Voxel size: 1.9×0.9×	4.0 mm Rel. SNR: 1.00	SIEMENS: tse
Droportino		Unfiltered images	Off
Properties	0"	- Prescan Normalize	On
Prio Recon	Off	Normalize	Off
Before measurement		B1 filter	Off
After measurement		Raw filter	Off
Load to viewer	On	Elliptical filter	Off
Inline movie	Off	Linplical litter	Oli
Auto store images	On	Geometry	
Load to stamp segments	Off	Multi-slice mode	Interleaved
Load images to graphic	Off	Series	Interleaved
segments	-		
Auto open inline display	Off	Special sat.	None
Start measurement without	On		
	On	Set-n-Go Protocol	Off
further preparation	0#	Table position	H
Wait for user to start	Off	Table position	11 mm
Start measurements	single	Inline Composing	Off
Routine		I militie Composing	Oli
Slice group 1		System	
Slices	36	Body	Off
		HEP	On
Dist. factor	0 %	HEA	On
Position	R4.7 A3.1 H10.8		OII
Orientation	T > C-14.9	Positioning mode	ISO
Phase enc. dir.	L >> R	MSMA	S - C - T
Rotation	-90.00 deg	Sagittal	L >> R
Phase oversampling	0 %	Coronal	P >> A
FoV read	240 mm		
FoV phase	100.0 %	Transversal	F >> H
Slice thickness	4.0 mm	Coil Combine Mode	Sum of Squares
	_	AutoAlign	
TR	8000 ms	Auto Coil Select	Default
TE	119.0 ms		O: I I
Averages	1	Shim mode	Standard
Concatenations	3	Adjust with body coil	Off
Filter	Distortion Corr.(2D), Prescan	Confirm freq. adjustment	Off
	Normalize	Assume Silicone	Off
Coil elements	HEA;HEP	? Ref. amplitude 1H	0.000 V
1	,	Adjustment Tolerance	Auto
Contrast		_ Adjust volume	
TD	0.0 ms	Position	R4.7 A3.1 H10.8
MTC	Off	Orientation	T > C-14.9
Magn. preparation	Slice-sel. IR	Rotation	-90.00 deg
I ті ї і і	2000 ms	A >> P	240 mm
Freeze suppressed tissue	Off		
Flip angle	150 deg	R >> L	240 mm
Fat suppr.	None	F >> H	144 mm
Water suppr.	None	Physio	
	Off	1st Signal/Mode	None
Restore magn.	OII		
Averaging mode	Long term	Dark blood	Off
Reconstruction	Magnitude		
Measurements	1	Resp. control	Off
	Each measurement	Inline	
Multiple series	Each measurement		O#
Resolution		Subtract	Off
Base resolution	256	- Std-Dev-Sag	Off
Phase resolution	50 %	Std-Dev-Cor	Off
Phase partial Fourier	Off	Std-Dev-Tra	Off
	Cartesian	Std-Dev-Time	Off
Trajectory		MIP-Sag	Off
Interpolation	On	MIP-Cor	Off
PAT mode	None	MIP-Tra	Off
Matrix Coil Mode	CP	MIP-Time	Off
IVIALITA COII IVIOUE	<b>∪</b> F		On
Image Filter	Off	Save original images	OII
Distortion Corr.	On		
Mode	2D	Sequence	
		Introduction	Off
Unfiltered images	Off	Dimension	2D
		· .	

Compensate T2 decay Off Reduce Motion Sens. Off Contrasts 1

Bandwidth 195 Hz/Px
Flow comp. No
Allowed delay 60 s
Echo spacing 9.92 ms

Define Turbo factor

Turbo factor 27
Echo trains per slice 5
RF pulse type Normal
Gradient mode Normal

\\USER\projects\imagen\_20091016\_VB17\imagen, session 1\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		Set-n-Go Protocol	Off
After measurement	_	Table position	H
Load to viewer	On	Table position	11 mm
Inline movie	Off	Inline Composing	Off
Auto store images	On		0.11
Load to stamp segments	Off	System	
Load images to graphic	Off	Body	Off
segments	0#	HEP	On
Auto open inline display Start measurement without	Off On	HEA	On
further preparation	Oli	Positioning mode	ISO
Wait for user to start	On	MSMA	S - C - T
Start measurements	single	Sagittal	L >> R
	on igio	Coronal	P >> A
Routine		Transversal	F >> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	40	AutoAlign	
Dist. factor	42 %	Auto Coil Select	Default
Position	R4.7 A3.1 H10.8	Shim mode	Standard
Orientation	T > C-14.9	Adjust with body coil	Off
Phase enc. dir.	P >> A	Confirm freq. adjustment	Off
Rotation	180.00 deg	Assume Silicone	Off
Phase oversampling FoV read	0 %	? Ref. amplitude 1H	0.000 V
	220 mm	Adjustment Tolerance	Auto
FoV phase Slice thickness	100.0 % 2.4 mm	Adjust volume	riato
TR	2200 ms	Position	R4.7 A3.1 H10.8
TE	30 ms	Orientation	T > C-14.9
Averages	1	Rotation	180.00 deg
Concatenations	1	R >> L	220 mm
Filter	Prescan Normalize	A >> P	220 mm
Coil elements	HEA;HEP	F >> H	136 mm
Contrast	11273,1121	Physio	
MTC	Off	1st Signal/Mode	None
Flip angle	75 deg	BOLD	
Fat suppr.	Fat sat.	GLM Statistics	Off
		Dynamic t-maps	Off
Averaging mode	Long term	Starting ignore meas	0
Reconstruction	Magnitude	Ignore after transition	0
Measurements	160	Model transition states	Off
Delay in TR	0 ms	Temp. highpass filter	Off
Multiple series	Off	Threshold	4.00
Resolution			
		Paradigm size	
Base resolution	64	_ Paradigm size Meas[1]	20
	64 100 %	Meas[1]	20 Baseline
Base resolution		Meas[1] Meas[2]	20 Baseline Baseline
Base resolution Phase resolution	100 %	Meas[1] Meas[2] Meas[3]	20 Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation	100 % Off Off	Meas[1] Meas[2]	20 Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode	100 % Off Off GRAPPA	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5]	20 Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE	100 % Off Off GRAPPA 2	Meas[1] Meas[2] Meas[3] Meas[4]	20 Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE	100 % Off Off GRAPPA 2 24	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6]	20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	100 % Off Off GRAPPA 2 24 CP	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7]	20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE	100 % Off Off GRAPPA 2 24 CP Separate	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	20 Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode	100 % Off Off GRAPPA 2 24 CP Separate Off	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9]	20 Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images	100 % Off Off GRAPPA 2 24 CP Separate	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10]	20 Baseline
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images Prescan Normalize	100 % Off Off GRAPPA 2 24 CP Separate Off Off Off	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13]	20 Baseline Active
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images Prescan Normalize Raw filter	100 % Off Off GRAPPA 2 24 CP Separate Off Off Off On On	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12]	20 Baseline Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter	100 % Off Off Off GRAPPA 2 24 CP Separate Off Off Off On On	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	20 Baseline Active Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images Prescan Normalize Raw filter	100 % Off Off GRAPPA 2 24 CP Separate Off Off Off On On	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14]	20 Baseline Active Active Active Active Active Active
Base resolution Phase resolution Phase partial Fourier Interpolation  PAT mode Accel. factor PE Ref. lines PE Matrix Coil Mode Reference scan mode  Distortion Corr. Unfiltered images Prescan Normalize Raw filter Elliptical filter	100 % Off Off Off GRAPPA 2 24 CP Separate Off Off Off On On	Meas[1] Meas[2] Meas[3] Meas[4] Meas[5] Meas[6] Meas[7] Meas[8] Meas[9] Meas[10] Meas[11] Meas[12] Meas[13] Meas[14] Meas[15]	20 Baseline Active Active Active Active Active

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

#### Sequence

Introduction Bandwidth Free echo spacing Echo spacing	Off 2298 Hz/Px On 0.52 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\projects\imagen\_20091016\_VB17\imagen, session 1\EPI stop signal
TA: 16:23 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 After measurement		Set-n-Go Protocol	Off
Load to viewer	On	Table position	Н
Inline movie	Off	Table position	11 mm
Auto store images	On	Inline Composing	Off
Load to stamp segments	Off	System	
Load images to graphic	Off	Body	Off
segments		HEP	On
Auto open inline display	Off	HEA	On
Start measurement without	On		
further preparation		Positioning mode	ISO
Wait for user to start	On	MSMA Sogittal	S - C - T L >> R
Start measurements	single	Sagittal Coronal	L >> K P >> A
Routine		Transversal	F >> H
Slice group 1		Coil Combine Mode	Sum of Squares
Slices	40	AutoAlign	
Dist. factor	42 %	Auto Coil Select	Default
Position	R4.7 A3.1 H10.8		
Orientation	T > C-14.9	Shim mode	Standard
Phase enc. dir.	P >> A	Adjust with body coil	Off
Rotation	180.00 deg	Confirm freq. adjustment	Off
Phase oversampling	0 %	Assume Silicone	Off
FoV read	220 mm	? Ref. amplitude 1H	0.000 V
FoV phase	100.0 %	Adjustment Tolerance	Auto
Slice thickness	2.4 mm	Adjust volume Position	R4.7 A3.1 H10.8
TR	2200 ms	Orientation	T > C-14.9
ŢE	30 ms	Rotation	1 > C-14.9 180.00 deg
Averages	1	R >> L	220 mm
Concatenations	1 Dragger Normalina	A >> P	220 mm
Filter Coil elements	Prescan Normalize HEA;HEP	F >> H	136 mm
1	HEA,HEF	ı	
Contrast	~	Physio 1st Signal/Mode	None
MTC	Off	1	None
Flip angle Fat suppr.	75 deg Fat sat.	BOLD	
Fat Suppr.	Fai Sai. 	GLM Statistics	Off
Averaging mode	Long term	Dynamic t-maps	Off
Reconstruction	Magnitude	Starting ignore meas	0
Measurements	444	Ignore after transition	0
Delay in TR	0 ms	Model transition states	Off Off
Multiple series	Off	Temp. highpass filter Threshold	4.00
Resolution		Paradigm size	20
Base resolution	64	Meas[1]	Baseline
Phase resolution	100 %	Meas[1]	Baseline
Phase partial Fourier	Off	Meas[3]	Baseline
Interpolation	Off	Meas[4]	Baseline
PAT mode	GRAPPA	Meas[5]	Baseline
Accel. factor PE	2	Meas[6]	Baseline
Ref. lines PE	24	Meas[7]	Baseline
Matrix Coil Mode	CP	Meas[8]	Baseline
Reference scan mode	Separate	Meas[9]	Baseline
		Meas[10]	Baseline
Distortion Corr.	Off	Meas[11]	Active
Unfiltered images	Off	Meas[12]	Active
Prescan Normalize	On	Meas[13]	Active
Raw filter	On O#	Meas[14]	Active
Elliptical filter	Off	Meas[15]	Active
Hamming	Off	Meas[16]	Active
Geometry		Meas[17] Meas[18]	Active Active
Multi-slice mode	Interleaved	weas[10]	TOUTE

Meas[19]	Active
Meas[20]	Active
Motion correction	Off
Spatial filter	Off

#### Sequence

Introduction Bandwidth Free echo spacing Echo spacing	Off 2298 Hz/Px On 0.52 ms
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast

\\USER\projects\imagen\_20091016\_VB17\imagen, session 1\B0 map

Rel. SNR: 1.00

SIEMENS: gre\_field\_mapping

Voxel size: 4.0×4.0×4.0 mm

TA: 0:45

Series

Properties		Special sat.	None
Prio Recon Before measurement After measurement	Off	Set-n-Go Protocol Table position	Off H
Load to viewer	On	Table position Inline Composing	11 mm Off
Inline movie	Off	I miline Composing	OII
Auto store images	On	System	
Load to stamp segments	Off	Body	Off
Load images to graphic	Off	HEP	On
segments Auto open inline display	Off	HEA	On
Start measurement without	On	Positioning mode	FIX
further preparation	311	MSMA	S - C - T
Wait for user to start	On	Sagittal	L >> R
Start measurements	single	Coronal	P >> A
Routine		Transversal	F >> H
Slice group 1		Save uncombined Coil Combine Mode	Off Adaptive Combine
Slices	36	AutoAlign	
Dist. factor	0 %	Auto Coil Select	Default
Position	R4.7 A3.1 H10.8		
Orientation	T > C-14.9	Shim mode	Standard
Phase enc. dir.	R >> L	Adjust with body coil	Off Off
Rotation	90.00 deg	Confirm freq. adjustment Assume Silicone	Off Off
Phase oversampling	0 %	? Ref. amplitude 1H	0.000 V
FoV read	256 mm	Adjustment Tolerance	Auto
FoV phase Slice thickness	87.5 % 4.0 mm	Adjust volume	71010
TR	378 ms	Position	R4.7 A3.1 H10.8
TE 1	4.63 ms	Orientation	T > C-14.9
TE 2	7.09 ms	Rotation	90.00 deg
Averages	1	A >> P	256 mm
Concatenations	1	R >> L	224 mm
Filter	Raw filter	F >> H	144 mm
Coil elements	HEA;HEP	Composing	
Contrast		Sequence	
MTC	Off	Introduction	On
Flip angle	40 deg	Dimension	2D
Fat suppr.	None	Asymmetric echo	Off
Averaging mode	Short term	Contrasts	2
Reconstruction	Magn./Phase	Bandwidth	260 Hz/Px
Measurements	1	Flow comp.	Yes
Multiple series	Each measurement	RF pulse type	Normal
Resolution		Gradient mode	Fast
Base resolution	64	RF spoiling	On
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 Raw filter	Off		
Intensity	On Medium		
Slope	48		
Elliptical filter	Off		
•	***		
Geometry  Multi slice mode	Interleaved	<u></u>	
Multi-slice mode	Interleaved		

Interleaved

\\USER\projects\imagen\_20091016\_VB17\imagen, session 1\ADNI MPRAGE

TA: 9:14 PAT: Off Voxel size: 1.1×1.1×1.1 mm Rel. SNR: 1.00 SIEMENS: tfl				
Drapartica		Prescan Normalize	On	
Properties	0"	Normalize	Off	
Prio Recon	Off	B1 filter	Off	
Before measurement		Raw filter	Off	
After measurement		Elliptical filter	Off	
Load to viewer	On	1 .	<b>5</b>	
Inline movie	Off	Geometry		
Auto store images	On	Multi-slice mode	Single shot	
Load to stamp segments	Off	Series	Interleaved	
Load images to graphic	Off			
segments		Set-n-Go Protocol	Off	
Auto open inline display	Off		H	
Start measurement without	On	Table position		
	OII	Table position	11 mm	
further preparation	0	Inline Composing	Off	
Wait for user to start	On	System		
Start measurements	single	Body	Off	
Routine		HEP	On	
Slab group 1				
Slabs	1	HEA	On	
Dist. factor	50 %	Positioning mode	ISO	
		MSMA	S - C - T	
Position	R4.7 A3.1 H10.8	Sagittal	L >> R	
Orientation	Sagittal	Coronal	P >> A	
Phase enc. dir.	A >> P			
Rotation	0.00 deg	Transversal	F >> H	
Phase oversampling	0 %	Save uncombined	Off	
Slice oversampling	0.0 %	Coil Combine Mode	Sum of Squares	
Slices per slab	160	AutoAlign		
FoV read	280 mm	Auto Coil Select	Default	
FoV phase	93.8 %	China mada	Ctondond	
Slice thickness	1.10 mm	Shim mode	Standard	
TR	2300 ms	Adjust with body coil	Off	
TE	2.93 ms	Confirm freq. adjustment	Off	
	2.93 1115	Assume Silicone	Off	
Averages	1	? Ref. amplitude 1H	0.000 V	
Concatenations	1	Adjustment Tolerance	Auto	
Filter	Distortion Corr.(2D), Prescan	Adjust volume		
	Normalize	Position	R4.7 A3.1 H10.8	
Coil elements	HEA;HEP	Orientation	Sagittal	
Contrast		Rotation	0.00 deg	
	Non-sel. IR	F >> H	280 mm	
Magn. preparation		A >> P	263 mm	
<u>Ti</u>	900 ms	R >> L	176 mm	
Flip angle	9 deg	I N >> L	17011111	
Fat suppr.	None	Physio		
Water suppr.	None	1st Signal/Mode	None	
Averaging mode	Long term	Dorlehland	O#	
Reconstruction	Magnitude	Dark blood	Off	
Measurements	1	Resp. control	Off	
Multiple series	Off	1		
	Oli	Inline		
Resolution		Subtract	Off	
Base resolution	256	Std-Dev-Sag	Off	
Phase resolution	100 %	Std-Dev-Cor	Off	
Slice resolution	100 %	Std-Dev-Tra	Off	
Phase partial Fourier	Off	Std-Dev-Time	Off	
Slice partial Fourier	Off	MIP-Sag	Off	
Interpolation	Off	MIP-Cor	Off	
interpolation	OII	MIP-Tra	Off	
PAT mode	None			
Matrix Coil Mode	CP	MIP-Time	Off	
		Save original images	On	
Image Filter	Off	1		
Distortion Corr.	On	Sequence		
Mode	2D	Introduction	On	
Unfiltered images	Off	Dimension	3D	
Unfiltered images	Off	Elliptical scanning	Off	
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Asymmetric echo	Off
Bandwidth	240 Hz/Px
Flow comp.	No
Echo spacing	6.9 ms
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On