SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\Circle Scout			
Scan Time: 0:17	Voxel size: 1.2×1.2×7.0 [mm]	Rel. SNR: 1.00	SIEMENS: gre_circle

Routine

Slice group 1	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0 [deg]
Slice group 2	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0 [deg]
Slice group 3	
Slices	1
Dist. factor	20 [%]
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0 [deg]
Phase oversampling	0 [%]
FoV read	300 [mm]
FoV phase	100.0 [%]
Slice thickness	7 [mm]
TR	20 [ms]
TE	3.39 [ms]
Averages	1
Concatenations	3
Filter	None
Coil elements	HE

Contrast

TD	0 [ms]
MTC	0
Magn. preparation	None
Flip angle	25 [deg]
Reconstruction	Magnitude
Fat suppr.	None
Water suppr.	None
Measurements	1

Resolution

Base resolution	256
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	0
PAT mode	None

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Saturation mode	Standard
Special sat.	None

System

Save uncombined	0
Scan at current TP	1
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Tune up
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0 [deg]
R >> L	350 [mm]
A >> P	263 [mm]
F >> H	350 [mm]

Physio

1st Signal/Mode	None
Segments	1
Dark blood	0

Inline

Subtract	0
Std-Dev-Sag	0
Std-Dev-Cor	0
Std-Dev-Tra	0
Std-Dev-Time	0
MIP-Sag	0
MIP-Cor	0
MIP-Tra	0
MIP-Time	0
Save original images	1

Sequence

Introduction	1
Dimension	2D
Phase stabilisation	0
Averaging mode	Short term
Asymmetric echo	Off
Contrasts	1
Bandwidth	260 [Hz/Px]
Flow comp.	No
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	1

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\tfl_mgh_me_vNav	
Scan Time: 8:07 Voxel size: 1.3×1.0×1.3 [mm] Rel. SNR: 1.00 USER: epi_nav\tfl_mgh_multiecho_epinav_r5	

Routine

Slab group 1	
Slabs	1
Dist. factor	50 [%]
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
Slice oversampling	0 [%]
Slices per slab	128
FoV read	256 [mm]
FoV phase	100.0 [%]
Slice thickness	1.33 [mm]
TR	2530 [ms]
TE[1]	1.53 [ms]
TE[2]	3.21 [ms]
TE[3]	4.89 [ms]
TE[4]	6.57 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HE

Contrast

Magn. preparation	Non-sel. IR
TI	1100 [ms]
Flip angle	7 [deg]
Reconstruction	Magnitude
Fat suppr.	None
Water suppr.	None
Measurements	1

Resolution

Base resolution	256
Phase resolution	75 [%]
Slice resolution	100 [%]
Phase partial Fourier	Off
Slice partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	0
PAT mode	None

Geometry

Multi-slice mode	Single shot
Series	Interleaved

System

Save uncombined	0
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard

Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	Isocenter
Orientation	Sagittal
Rotation	0 [deg]
F >> H	256 [mm]
A >> P	256 [mm]
R >> L	171 [mm]

Physio

1st Signal/Mode	None
Dark blood	0

Inline

Subtract	0
Std-Dev-Sag	0
Std-Dev-Cor	0
Std-Dev-Tra	0
Std-Dev-Time	0
MIP-Sag	0
MIP-Cor	0
MIP-Tra	0
MIP-Time	0
Save original images	1

Sequence

Introduction	1
Dimension	3D
Elliptical scanning	0
Averaging mode	Long term
Asymmetric echo	Off
Contrasts	4
Bandwidth	651 [Hz/Px]
Flow comp.	No
Echo spacing	8.9 [ms]
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	1
Add. scale factor	4
Gradient spoiling	Siemens
Gradient moment factor	1
Siemens reconstruction	1
Save raw k-space data	0
Averaging	RMS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\Matched Bandwidth Hi-Res
Scan Time: 1:30   Voxel size: 1.7×1.7×4.0 [mm]   Rel. SNR: 1.00   SIEMENS: ep_seg_se

Routine

Slice group 1	
Slices	34
Dist. factor	25 [%]
Position	R1.4 P6.8 H10.4 [mm]
Orientation	T > C-7.0
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
FoV read	220 [mm]
FoV phase	100.0 [%]
Slice thickness	4 [mm]
TR	5000 [ms]
TE	33 [ms]
Averages	4
Concatenations	1
Filter	None
Coil elements	HE

Contrast

MTC	0
Magn. preparation	None
Flip angle	90 [deg]
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1

Resolution

Base resolution	128
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	0

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Save uncombined	0
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R1.4 P6.8 H10.4 [mm]
Orientation	T > C-7.0
Rotation	0 [deg]

R >> L	220 [mm]
A >> P	220 [mm]
F >> H	169 [mm]

Physio

1st Signal/Mode	None
Resp. control	Off

Sequence

Introduction	0
Dimension	2D
Averaging mode	Long term
Bandwidth	1302 [Hz/Px]
Free echo spacing	0
Echo spacing	0.85 [ms]
EPI factor	33
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM Allegra syngo MR 2004A

> \\USER\Narr\Depression\Brain\Resting
>
> Scan Time: 6:04   Voxel size: 3.4×3.4×4.0 [mm]   Rel. SNR: 1.00   SIEMENS: ep2d_bold

			1st Signal/Mode	None
Routine			**BOLD**	
Slice group 1			t-Test	0
Slices	34		Threshold	3.00
Dist. factor	25 [%]		Window	Growing
Position	R1.4 P6.8 H10.4 [mm]		Dynamic t-maps	1
Orientation	T > C-7.0		Starting ignore meas	0
Phase enc. dir.	A >> P		Paradigm size	12
Rotation	0 [deg]		Meas[1]	Baseline
Phase oversampling	0 [%]		Meas[2]	Active
FoV read	220 [mm]		Meas[3]	Baseline
FoV phase	100.0 [%]		Meas[4]	Active
Slice thickness	4 [mm]		Meas[5]	Baseline
TR	2000 [ms]		Meas[6]	Active
TE	30 [ms]		Meas[7]	Baseline
Averages	1		Meas[8]	Active
Concatenations	1		Meas[9]	Baseline
Filter	None		Meas[10]	Active
Coil elements	HE		Meas[11]	Baseline
			Meas[12]	Active
Contrast			Motion correction	0
MTC	0		Spatial filter	0
Flip angle	77 [deg]			
Reconstruction	Magnitude		**Sequence**	
Fat suppr.	Fat sat.		Introduction	0
Measurements	180		Averaging mode	Long term
Delay in TR	0 [ms]		Bandwidth	2604 [Hz/Px]
Multiple series	0		Free echo spacing	0
			Echo spacing	0.44 [ms]
Resolution				
Base resolution	64		EPI factor	64
Phase resolution	100 [%]		RF pulse type	Normal
Phase partial Fourier	Off		Gradient mode	Fast
Filter 1				
Raw filter	Off			
Interpolation	0			
PAT mode	None			

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R1.4 P6.8 H10.4 [mm]
Orientation	T > C-7.0
Rotation	0 [deg]
R >> L	220 [mm]
A >> P	220 [mm]
F >> H	169 [mm]

Physio

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\ep2d_casl_UI	
Scan Time: 4:08 Voxel size: 4.0×4.0×6.0 [mm] Rel. SNR: 1.00 USER: ep2d_casl_UI_iPAT2	

1st Signal/Mode	None

Routine

Slice group 1	
Slices	18
Dist. factor	25 [%]
Position	L2.9 A3.1 H29.3 [mm]
Orientation	T > C13.0
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
FoV read	256 [mm]
FoV phase	100.0 [%]
Slice thickness	6 [mm]
TR	4000 [ms]
TE	16 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HE

Contrast

MTC	0
Flip angle	90 [deg]
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	60
Delay in TR	0 [ms]
Multiple series	0

Resolution

Base resolution	64
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Interpolation	0
PAT mode	None

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	None

System

Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	L2.9 A3.1 H29.3 [mm]
Orientation	T > C13.0
Rotation	0 [deg]
R >> L	256 [mm]
A >> P	256 [mm]
F >> H	134 [mm]

Physio

BOLD

t-Test	0
Threshold	4.00
Window	Growing
Dynamic t-maps	0
Starting ignore meas	0
Paradigm size	20
Meas[1]	Ignore
Meas[2]	Ignore
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Ignore
Meas[12]	Ignore
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion correction	1
Interpolation	3D-K-space
Spatial filter	0

Sequence

Introduction	0
Averaging mode	Long term
Bandwidth	3004 [Hz/Px]
Free echo spacing	0
Echo spacing	0.38 [ms]
EPI factor	64
RF pulse type	Normal
Gradient mode	Fast
CASL Method	Multi-slice
Label Offset	80 mm
Post Label Delay	1000000 us
Num RF Blocks	20
RF GAP	5000 us
Pre Label Delay	0 us

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\ep_set_shmocoSVS_5mm_adult			
+ Scan Time: 1.2 [s]	Voxel size: 5.0×5.0×5.0 [mm]	Rel. SNR: 1.00	USER: epi_nav\ep_moco_set

Routine

Slab group 1	
Slabs	1
Dist. factor	50 [%]
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90 [deg]
Phase oversampling	0 [%]
Slice oversampling	0 [%]
Slices per slab	28
FoV read	220 [mm]
FoV phase	90.9 [%]
Slice thickness	5 [mm]
TR	21 [ms]
TE[1]	8 [ms]
TE[2]	12.8 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HE

Contrast

MTC	0
Flip angle	2 [deg]
Reconstruction	Magn./Phase
Fat suppr.	None
Measurements	1

Resolution

Base resolution	44
Phase resolution	100 [%]
Slice resolution	100 [%]
Phase partial Fourier	Off
Slice partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	0

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Save uncombined	0
Scan at current TP	1
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Tune up
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	Isocenter
Orientation	Transversal

Rotation	0 [deg]
R >> L	350 [mm]
A >> P	263 [mm]
F >> H	350 [mm]

Physio

1st Signal/Mode	None

Sequence

Introduction	0
Dimension	3D
Averaging mode	Long term
Contrasts	2
Bandwidth	3918 [Hz/Px]
Free echo spacing	0
Echo spacing	0.31 [ms]
EPI factor	40
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	1
Shim Navigator	1
Delta TE	4800
Protocol Name	SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\svs_vNav_WS Lt Hippo

Scan Time: 4:50   VoI: 30 ×12 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	L28.0 P2.5 F41.2 [mm]
Orientation	T > C21.0
Rotation	0 [deg]
VoI A >> P	30 [mm]
VoI R >> L	12 [mm]
VoI F >> H	12 [mm]
TR	2200 [ms]
TE	30 [ms]
Averages	128
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	Water sat.
Water suppr. BW	70 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1

Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	L28.0 P2.5 F41.2 [mm]
Orientation	T > C21.0
Rotation	90 [deg]
A >> P	30 [mm]
R >> L	12 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	4
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]

EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\svs_vNav_NWS Lt Hippo

Scan Time: 0:32   Vol: 30 ×12 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	L28.0 P2.5 F41.2 [mm]
Orientation	T > C21.0
Rotation	0 [deg]
Vol A >> P	30 [mm]
Vol R >> L	12 [mm]
Vol F >> H	12 [mm]
TR	8000 [ms]
TE	30 [ms]
Averages	1
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	None
Water suppr. BW	35 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	L28.0 P2.5 F41.2 [mm]
Orientation	T > C21.0
Rotation	90 [deg]
A >> P	30 [mm]
R >> L	12 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	3
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]
EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\svs_vNav_WS Rt Hippo

Scan Time: 4:50   VoI: 30 ×12 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R20.0 P26.0 F39.0 [mm]
Orientation	T > C16.6
Rotation	0 [deg]
VoI A >> P	30 [mm]
VoI R >> L	12 [mm]
VoI F >> H	12 [mm]
TR	2200 [ms]
TE	30 [ms]
Averages	128
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	Water sat.
Water suppr. BW	70 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1

Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R20.0 P26.0 F39.0 [mm]
Orientation	T > C16.6
Rotation	90 [deg]
A >> P	30 [mm]
R >> L	12 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	4
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]

EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\svs_vNav_NWS Rt Hippo

Scan Time: 0:32   Vol: 30 ×12 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R20.0 P26.0 F39.0 [mm]
Orientation	T > C16.6
Rotation	0 [deg]
Vol A >> P	30 [mm]
Vol R >> L	12 [mm]
Vol F >> H	12 [mm]
TR	8000 [ms]
TE	30 [ms]
Averages	1
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	None
Water suppr. BW	35 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
----	----
Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R20.0 P26.0 F39.0 [mm]
Orientation	T > C16.6
Rotation	90 [deg]
A >> P	30 [mm]
R >> L	12 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	3
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]
----	----
EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

\\USER\Narr\Depression\Brain\svs_vNav_WS DorCing

Scan Time: 4:50   Vol: 20 ×18 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R14.0 A45.0 F3.5 [mm]
Orientation	T > C29.9
Rotation	0 [deg]
Vol A >> P	20 [mm]
Vol R >> L	18 [mm]
Vol F >> H	12 [mm]
TR	2200 [ms]
TE	30 [ms]
Averages	128
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	Water sat.
Water suppr. BW	70 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R14.0 A45.0 F3.5 [mm]
Orientation	T > C29.9
Rotation	90 [deg]
A >> P	20 [mm]
R >> L	18 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	4
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]
EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

\\USER\Narr\Depression\Brain\svs_vNav_NWS DorCing

Scan Time: 0:32   VoI: 20 ×18 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R14.0 A45.0 F3.5 [mm]
Orientation	T > C29.9
Rotation	0 [deg]
Vol A >> P	20 [mm]
Vol R >> L	18 [mm]
Vol F >> H	12 [mm]
TR	8000 [ms]
TE	30 [ms]
Averages	1
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	None
Water suppr. BW	35 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R14.0 A45.0 F3.5 [mm]
Orientation	T > C29.9
Rotation	90 [deg]
A >> P	20 [mm]
R >> L	18 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	3
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]
EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

\\USER\Narr\Depression\Brain\svs_vNav_WS subCing

Scan Time: 4:50   VoI: 20 ×18 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R4.0 A51.0 F35.0 [mm]
Orientation	T > C-41.0
Rotation	0 [deg]
VoI A >> P	20 [mm]
VoI R >> L	18 [mm]
VoI F >> H	12 [mm]
TR	2200 [ms]
TE	30 [ms]
Averages	128
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	Water sat.
Water suppr. BW	70 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1

Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R4.0 A51.0 F35.0 [mm]
Orientation	T > C-41.0
Rotation	90 [deg]
A >> P	20 [mm]
R >> L	18 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	4
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]

EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\svs_vNav_NWS subCing

Scan Time: 0:32   VoI: 20 ×18 ×12 [mm]   Rel. SNR: 1.00   USER: epi_nav\\svs_se_NAV_VA25_r5

Routine

Position	R4.0 A51.0 F35.0 [mm]
Orientation	T > C-41.0
Rotation	0 [deg]
VoI A >> P	20 [mm]
VoI R >> L	18 [mm]
VoI F >> H	12 [mm]
TR	8000 [ms]
TE	30 [ms]
Averages	1
Coil elements	HE

Contrast

Flip angle	90 [deg]
Water suppr.	None
Water suppr. BW	35 [Hz]
Measurements	1

Resolution

Vector size	1024

Geometry

System

Save uncombined	1
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Advanced
Adj. water suppr.	0
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R4.0 A51.0 F35.0 [mm]
Orientation	T > C-41.0
Rotation	90 [deg]
A >> P	20 [mm]
R >> L	18 [mm]
F >> H	12 [mm]

Sequence

Preparation scans	3
Delta frequency	-3.4 [ppm]
Phase cycling	Auto
Bandwidth	2000 [Hz]
Acquisition duration	512 [ms]
EPI Navigator On	1
Apply Feedback	SVS Shim
Feedback Wait	170000
Wait Remain	10000
.	0
Empty Ice	0
Disable Nav Shim	0
Nav Prot	user_SVS

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\ep2d_diff_WIP_96x96_37

+ Scan Time: 4:17   Voxel size: 2.5×2.5×2.5 [mm]   Rel. SNR: 1.00   USER: ep2d_diff

Routine

Slice group 1	
Slices	55
Dist. factor	0 [%]
Position	L0.9 P5.7 H1.6 [mm]
Orientation	T > C-3.1 > S0.2
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
FoV read	240 [mm]
FoV phase	100.0 [%]
Slice thickness	2.5 [mm]
TR	7300 [ms]
TE	95 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HE

Contrast

MTC	0
Magn. preparation	None
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1
Delay in TR	0 [ms]

Resolution

Base resolution	96
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	1
PAT mode	None

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	L0.9 P5.7 H1.6 [mm]
Orientation	T > C-3.1 > S0.2
Rotation	0 [deg]

R >> L	240 [mm]
A >> P	240 [mm]
F >> H	138 [mm]

Physio

1st Signal/Mode	None

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	1000 [s/mm²]
Diff. weighted images	1
Trace weighted images	0
Average ADC maps	0
Individual ADC maps	0
Noise level	40
Diff. directions	34

Sequence

Introduction	1
Averaging mode	Long term
Bandwidth	2894 [Hz/Px]
Free echo spacing	0
Echo spacing	0.47 [ms]
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\ep2d_diff_WIP_96x96_34

+ Scan Time: 4:17   Voxel size: 2.5×2.5×2.5 [mm]   Rel. SNR: 1.00   USER: ep2d_diff

Routine			
Slice group 1			
Slices	55		
Dist. factor	0 [%]		
Position	L0.9 P5.7 H1.6 [mm]		
Orientation	T > C-3.1 > S0.2		
Phase enc. dir.	A >> P		
Rotation	0 [deg]		
Phase oversampling	0 [%]		
FoV read	240 [mm]		
FoV phase	100.0 [%]		
Slice thickness	2.5 [mm]		
TR	7300 [ms]		
TE	95 [ms]		
Averages	1		
Concatenations	1		
Filter	None		
Coil elements	HE		

Contrast

MTC	0
Magn. preparation	None
Reconstruction	Magnitude
Fat suppr.	Fat sat.
Measurements	1
Delay in TR	0 [ms]

Resolution

Base resolution	96
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	1
PAT mode	None

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	L0.9 P5.7 H1.6 [mm]
Orientation	T > C-3.1 > S0.2
Rotation	0 [deg]

R >> L	240 [mm]
A >> P	240 [mm]
F >> H	138 [mm]

Physio

1st Signal/Mode	None

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	1000 [s/mm²]
Diff. weighted images	1
Trace weighted images	0
Average ADC maps	0
Individual ADC maps	0
Noise level	40
Diff. directions	34

Sequence

Introduction	1
Averaging mode	Long term
Bandwidth	2894 [Hz/Px]
Free echo spacing	0
Echo spacing	0.47 [ms]
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast*

SIEMENS MAGNETOM Allegra syngo MR 2004A

\\USER\Narr\Depression\Brain\gre_field_map

Scan Time: 4:20   Voxel size: 2.0×2.0×2.0 [mm]   Rel. SNR: 1.00   SIEMENS: gre_field_mapping

Routine

Slice group 1	
Slices	54
Dist. factor	50 [%]
Position	R1.4 P6.1 H6.8 [mm]
Orientation	T > C-7.0
Phase enc. dir.	A >> P
Rotation	0 [deg]
Phase oversampling	0 [%]
FoV read	256 [mm]
FoV phase	100.0 [%]
Slice thickness	2 [mm]
TR	1000 [ms]
TE[1]	5.53 [ms]
TE[2]	7.99 [ms]
Averages	1
Concatenations	1
Filter	None
Coil elements	HE

Contrast

MTC	0
Flip angle	55 [deg]
Reconstruction	Magn./Phase
Fat suppr.	None
Measurements	1

Resolution

Base resolution	128
Phase resolution	100 [%]
Phase partial Fourier	Off
Filter 1	
Raw filter	Off
Filter 2	
Large FoV	Off
Filter 3	
Normalize	Off
Filter 4	
Elliptical filter	Off
Interpolation	0

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

System

Save uncombined	0
Scan at current TP	0
Scan region position	H
Scan region position	0 [mm]
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Head 3T / HE	1
Shim mode	Standard
Confirm freq. adjustment	0
Assume Silicone	0
Ref. amplitude [1H]	140.000 [V]
Adjust volume	
Position	R1.4 P6.1 H6.8 [mm]
Orientation	T > C-7.0
Rotation	0 [deg]
R >> L	256 [mm]

A >> P	256 [mm]
F >> H	161 [mm]

Sequence

Introduction	1
Dimension	2D
Averaging mode	Short term
Asymmetric echo	Off
Contrasts	2
Bandwidth	1302 [Hz/Px]
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	1

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                gre_field_map
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