______ \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\Localizer TA:9.2 s PAT:Off Voxel size:1.2x1.2x5.0 mm Rel. SNR:1.00 :fl ______ Properties Prio Recon On Before measurement After measurement Load to viewer Off Inline movie Off Auto store images On Load to stamp segments On Load images to graphic segments On Auto open inline display Off Wait for user to start On Start measurements single Routine Nr. of slice groups 3 Slices 1 Dist. factor 20 % Position L0.0 A45.0 H0.0 mm Orientation Transversal Phase enc. dir. A >> P AutoAlign 0 % Phase oversampling FoV read 300 mm 100.0 % FoV phase 5.0 mm Slice thickness 40.0 ms TR ΤE 3.00 ms Averages Concatenations Prescan Normalize, Elliptical filter Filter Coil elements HEA; HEP

Contrast

MTC Off
Magn. preparation None
Flip angle 15 deg
Fat suppr. None
Water suppr. None
SWI Off
Averaging mode Short term

Measurements 1
Reconstruction Magnitude
Multiple series Off

Resolution

Base resolution
Phase resolution
Phase partial Fourier
Interpolation
PAT mode
Image Filter
Distortion Corr.

Unfiltered images

Prescan Normalize

Normalize B1 filter 256 75 % Off Off None Off

> On Off Off

Off

	Raw filter	Off
	Elliptical filter	On
	Mode	Inplane
Geom	etry	
	Nr. of slice groups	3
	Slices	1
	Dist. factor	20 %
	Position	L0.0 A45.0 H0.0 mm
	Phase enc. dir.	A >> P
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Saturation mode	Standard
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	None
	Water suppr.	None
	Special sat.	None
	Special sat.	None
_	Table position	P
Syst		
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Save uncombined	Off
	Coil Combine Mode	Sum of Squares
	AutoAlign	
	Auto Coil Select	Default
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
		Off
	Assume Silicone	
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	Isocenter
	Rotation	0.00 deg
	R >> L	350 mm
	A >> P	263 mm
	F >> H	350 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	19.740 V
	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys		
-	1st Signal/Mode	None
	Segments	1
	Magn. preparation	None
	Dark blood	Off
	Resp. control	Off
	nosp. concret	V

```
Inline
    Distortion correction
                                             Off
Sequence
    Introduction
                                              On
    Dimension
                                              2D
     Phase stabilisation
                                              On
    Averaging mode
                                              Short term
    Multi-slice mode
                                              Interleaved
    Asymmetric echo
                                             Allowed
    Contrasts
                                             1
    Bandwidth
                                             260 Hz/Px
    Flow comp.
                                             No
    Allowed delay
                                              0 s
    RF pulse type
                                             Normal
    Gradient mode
                                             Fast
    Excitation
                                             Slice-sel.
    RF spoiling
                                             On
     TX/RX delta frequency
                                              0 Hz
     TX Nucleus
                                             None
     TX delta frequency
                                              0 Hz
     Coil elements
                                             HEA; HEP
     Acquisition duration
                                              0 ms
    Mode
                                             Off
BOLD
     Subtract
                                             Off
     Liver registration
                                              Off
     Save images
                                              On
    Autoscaling
                                             Off
     Scaling factor
                                              1
    Offset
                                              0
     Subtrahend
                                              1
     Subtraction indices
                                             Off
     StdDev
     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
    Radial MIP
                                              Off
     Save original images
                                             On
    Distortion Corr.
                                             Off
    Contrasts
                                              1
     Save original images
                                             On
     Wash - In
                                              Off
    Wash - Out
                                             Off
    TTP
                                             Off
     PEI
                                             Off
    MIP - time
                                             Off
    Number of radial views
     Axis of radial views
                                             L-R
    MPR Sag
                                              Off
    MPR Cor
                                              Off
    MPR Tra
                                              Off
```

```
\\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\AAHScout
         TA:0:14 PAT:3 Voxel size:1.6x1.6x1.6 mm Rel. SNR:1.00 :fl
______
Properties
    Prio Recon
                                         On
    Before measurement
    After measurement
    Load to viewer
                                         On
    Inline movie
                                         Off
    Auto store images
                                         On
    Load to stamp segments
                                         Off
    Load images to graphic segments
                                        Off
    Auto open inline display
                                         Off
    Wait for user to start
                                         Off
    Start measurements
                                        single
Routine
    Nr. of slab groups
                                         1
    Slabs
                                         1
    Dist. factor
                                         20 %
                                         L0.0 A45.0 H0.0 mm
    Position
    Orientation
                                         Sagittal
    Phase enc. dir.
                                         A >> P
    Phase oversampling
                                         0 왕
    Slice oversampling
                                         0.0 %
    FoV read
                                         260 mm
    FoV phase
                                         100.0 %
    Slice thickness
                                         1.6 mm
    TR
                                         3.15 ms
    TE
                                         1.37 ms
    Averages
    Concatenations
    Filter
                                         Prescan Normalize
    Coil elements
                                         HEA; HEP
    AutoAlign
                                         Head
Contrast
    Flip angle
                                         8 deg
    Averaging mode
                                         Short term
    Measurements
    Reconstruction
                                         Magnitude
Resolution
    Base resolution
                                         160
    Phase resolution
                                         100 %
    Phase partial Fourier
                                         6/8
    PAT mode
                                         GRAPPA
    Accel. factor PE
                                         3
    Ref. lines PE
                                         24
    Reference scan mode
                                         Integrated
    Image Filter
                                         Off
    Distortion Corr.
                                         Off
    Accel. factor 3D
                                         1
    Unfiltered images
                                         Off
    Prescan Normalize
                                         On
    Normalize
                                         Off
    B1 filter
                                         Off
```

Off

Off

69 %

6/8

1

Raw filter

Geometry

Elliptical filter

Slice resolution

Nr. of slab groups

Slice partial Fourier

	-1 1	
	Slabs	1
	Dist. factor	20 %
	Position	L0.0 A45.0 H0.0 mm
	Phase enc. dir.	A >> P
	Phase oversampling	0 %
	Slice oversampling	0.0 %
		128
	Slices per slab	
	Multi-slice mode	Sequential
	Series	Ascending
	Nr. of sat. regions	0
	Position mode	L-P-H
	Special sat.	None
	Table position	P
Syst		
Dybc	Body	Off
	-	-
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
		F >> H
	Transversal	
	Save uncombined	Off
	Coil Combine Mode	Adaptive Combine
	Auto Coil Select	Off
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	Isocenter
	Rotation	
		0.00 deg
	R >> L	350 mm
	A >> P	263 mm
	F >> H	350 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	24.593 V
	Gain	Low
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys		1.000
Inli		
T11T T		0.5.5
~	Distortion correction	Off
Sequ	ience	
	Introduction	On
	Dimension	3D
	Averaging mode	Short term
	Multi-slice mode	Sequential
	Asymmetric echo	Weak
	Contrasts	1
	Bandwidth	540 Hz/Px
	RF pulse type	Fast
	Gradient mode	Normal
	Excitation	Non-sel.

```
TX/RX delta frequency
                                          0 Hz
    TX Nucleus
                                          None
    TX delta frequency
                                          0 Hz
    Coil elements
                                          HEA; HEP
    Acquisition duration
                                          0 ms
                                          Off
    Mode
BOLD
                                          6.2 s
    Time to center
    Subtract
                                          Off
    Save images
                                          On
    Autoscaling
                                          Off
    Scaling factor
                                          1
    Offset
                                          0
    Subtrahend
                                          1
    Subtraction indices
                                          Off
    StdDev
                                          Off
    Std-Dev-Sag
                                          Off
    Std-Dev-Cor
                                          Off
    Std-Dev-Tra
                                          Off
    Std-Dev-Time
    MIP-Sag
                                          Off
    MIP-Cor
                                          Off
    MIP-Tra
                                          Off
    MIP-Time
                                          Off
    Radial MIP
                                          Off
    Save original images
                                          On
    Distortion Corr.
                                          Off
    Contrasts
                                          1
    Save original images
                                          On
    Number of radial views
                                          1
    Axis of radial views
                                          L-R
    MPR Sag
                                          Off
    MPR Cor
                                          Off
    MPR Tra
                                          Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
           _____
        \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\Localizer_aligned
         TA:0:22 PAT:Off Voxel size:1.2x1.2x5.0 mm Rel. SNR:1.00 :fl
Properties
    Prio Recon
                                          On
    Before measurement
    After measurement
                                          Off
    Load to viewer
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          On
    Load images to graphic segments
                                         On
    Auto open inline display
                                          Off
    Wait for user to start
                                          Off
    Start measurements
                                         single
Routine
    Nr. of slice groups
                                          3
```

On

RF spoiling

Slices

Position

Dist. factor

Orientation

1

20 %

Isocenter

Transversal

	Phase enc. dir.	A >> P
	AutoAlign	Head > Brain
	Phase oversampling	0 %
	FoV read	300 mm
	FoV phase	100.0 %
	Slice thickness	5.0 mm
	TR	104.0 ms
	TE	3.00 ms
	Averages	1
	Concatenations	1
	Filter	Prescan Normalize, Elliptical filter
	Coil elements	HEA; HEP
Conti		
001101	MTC	Off
	Magn. preparation	None
	Flip angle	15 deg
		None
	Fat suppr.	None
	Water suppr.	Off
	SWI	
	Averaging mode	Short term
	Measurements	1
	Reconstruction	Magnitude
	Multiple series	Off
Reso.	lution	
	Base resolution	256
	Phase resolution	75 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Image Filter	Off
	Distortion Corr.	Off
	Unfiltered images	Off
	Prescan Normalize	On
	Normalize	Off
	B1 filter	Off
	Raw filter	Off
	Elliptical filter	On
	Mode	Inplane
Geome	etry	
	Nr. of slice groups	3
	Slices	1
	Dist. factor	20 %
	Position	Isocenter
	Phase enc. dir.	A >> P
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Saturation mode	Standard
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	None
	Water suppr.	None
	Special sat.	None
	Special sat.	None
		P P
Crrat	Table position	r
Syste		Off
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> I	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.253687 MHz
Correction factor	123.233007 MHZ
SRFExcit 1H	19.740 V
Gain	High
	0 mm
Table position	1.000
Img. Scale. Cor.	1.000
Physio	Mara
1st Signal/Mode	None
Segments	1
Magn. preparation	None
Dark blood	Off
Resp. control	Off
Inline Distortion correction	055
	Off
Sequence	
- · · · · · · · · · · · · · · · · · · ·	
Introduction	On
Dimension	2D
Dimension Phase stabilisation	2D On
Dimension Phase stabilisation Averaging mode	2D On Short term
Dimension Phase stabilisation Averaging mode Multi-slice mode	2D On Short term Interleaved
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo	2D On Short term Interleaved Allowed
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts	2D On Short term Interleaved Allowed 1
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth	2D On Short term Interleaved Allowed 1 260 Hz/Px
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp.	2D On Short term Interleaved Allowed 1 260 Hz/Px No
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel.
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz HEA; HEP
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz HEA; HEP
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode BOLD	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms Off
Dimension Phase stabilisation Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth Flow comp. Allowed delay RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode	On Short term Interleaved Allowed 1 260 Hz/Px No 0 s Normal Fast Slice-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms

```
Liver registration
Save images
                                         On
Autoscaling
                                         Off
Scaling factor
                                         1
Offset
                                         0
Subtrahend
                                         1
Subtraction indices
StdDev
                                         Off
Std-Dev-Sag
                                         Off
Std-Dev-Cor
                                         Off
Std-Dev-Tra
                                         Off
Std-Dev-Time
                                         Off
                                         Off
MIP-Sag
MIP-Cor
                                         Off
MIP-Tra
                                         Off
MIP-Time
                                         Off
                                         Off
Radial MIP
Save original images
                                         On
Distortion Corr.
                                         Off
Contrasts
                                         1
Save original images
                                         On
Wash - In
                                         Off
Wash - Out
                                         Off
TTP
                                         Off
PEI
                                         Off
MIP - time
                                         Off
Number of radial views
                                         1
Axis of radial views
                                        L-R
MPR Sag
                                         Off
MPR Cor
                                         Off
MPR Tra
                                         Off
```

```
\\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\BIAS_BC
TA:0:26 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :tfl
```

Off

```
Properties
    Prio Recon
                                           Off
    Before measurement
    After measurement
    Load to viewer
                                           On
    Inline movie
                                           Off
    Auto store images
                                           On
    Load to stamp segments
                                           Off
    Load images to graphic segments
                                         Off
    Auto open inline display
                                           Off
    Wait for user to start
                                           Off
    Start measurements
                                           single
Routine
    Nr. of slab groups
                                           1
    Slabs
                                           1
    Dist. factor
```

Position

AutoAlign

Orientation

Phase enc. dir.

Phase oversampling Slice oversampling

50 % Isocenter Sagittal A >> P Head > Brain 0 % 18.2 %

FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements Contrast Magn. preparation Flip angle	256 mm 100.0 % 2.00 mm 250.0 ms 1.01 ms 1 None BC None 3 deg
Fat suppr. Water suppr. Averaging mode Measurements Reconstruction Multiple series	None None Long term 1 Magnitude Each measurement
Resolution Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Image Filter Distortion Corr. Prescan Normalize Normalize B1 filter Raw filter Elliptical filter Slice resolution	128 100 % 6/8 Off None Off Off Off Off Off Off Off Off Off Of
Slice partial Fourier Geometry Nr. of slab groups Slabs Dist. factor Position Phase enc. dir. Phase oversampling Slice oversampling Slices per slab Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Water suppr. Special sat. Table position	1 1 50 % Isocenter A >> P 0 % 18.2 % 88 Single shot Interleaved 0 L-P-H None None None
Table position System Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal	P On Off Off L-P-H FIX H O mm S - C - T R >> L

	Coronal	A >> P
	Transversal	F >> H
	Save uncombined	Off
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	Isocenter
	Rotation	0.00 deg
	R >> L	350 mm
	A >> P	263 mm
	F >> H	350 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	27.667 V
	Gain	Low
	Table position	0 mm
	Img. Scale. Cor.	1.000
Physi		
	1st Signal/Mode	None
	Magn. preparation	None
	Dark blood	Off
Inlir	Resp. control	Off
TIITTI	ie	
	Distortion correction	Off
Segue	Distortion correction	Off
Seque	ence	
Seque	ence Introduction	On
Seque	ence Introduction Dimension	On 3D
Seque	ence Introduction Dimension Elliptical scanning	On 3D Off
Seque	ence Introduction Dimension Elliptical scanning Averaging mode	On 3D Off Long term
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode	On 3D Off Long term Single shot
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering	On 3D Off Long term Single shot Linear
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo	On 3D Off Long term Single shot Linear Allowed
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp.	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel.
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel. On
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel. On 0 Hz
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast For the short Non-sel. On 0 Hz None
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel. On 0 Hz None 0 Hz BC
Seque	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Subtract	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Subtract Save images	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Subtract Save images Autoscaling	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Subtract Save images Autoscaling Scaling factor	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off Off On Off
	ence Introduction Dimension Elliptical scanning Averaging mode Multi-slice mode Reordering Asymmetric echo Bandwidth Flow comp. Echo spacing Turbo factor RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Subtract Save images Autoscaling	On 3D Off Long term Single shot Linear Allowed 540 Hz/Px No 3 ms 78 Fast Fast Fast Non-sel. On 0 Hz None 0 Hz BC 0 ms Off

```
Subtraction indices
    StdDev
                                          Off
                                          Off
    Std-Dev-Sag
                                          Off
    Std-Dev-Cor
    Std-Dev-Tra
                                          Off
                                          Off
    Std-Dev-Time
                                          Off
    MIP-Saq
    MIP-Cor
                                          Off
    MIP-Tra
                                          Off
    MIP-Time
                                          Off
    Radial MIP
                                          Off
    Save original images
                                          On
                                          Off
    Distortion Corr.
    Save original images
                                          On
    Number of radial views
                                          1
    Axis of radial views
                                          L-R
    MPR Sag
                                          Off
    MPR Cor
                                          Off
    MPR Tra
                                          Off
                 SIEMENS MAGNETOM ConnectomS syngo MR D11
______
          \\USER\Lifespan\LS Phaselb 14-55yo\SessionA\BIAS 32CH
        TA:0:26 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :tfl
Properties
    Prio Recon
                                          Off
    Before measurement
    After measurement
    Load to viewer
                                          On
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          Off
    Load images to graphic segments
                                          Off
    Auto open inline display
                                          Off
    Wait for user to start
                                          Off
    Start measurements
                                          single
Routine
    Nr. of slab groups
    Slabs
                                          1
    Dist. factor
                                          50 %
    Position
                                          Isocenter
    Orientation
                                          Sagittal
    Phase enc. dir.
                                          A >> P
                                          Head > Brain
    AutoAlign
                                          0 %
    Phase oversampling
                                          18.2 %
    Slice oversampling
    FoV read
                                          256 mm
    FoV phase
                                          100.0 %
    Slice thickness
                                          2.00 mm
                                          250.0 ms
    TR
    TE
                                          1.01 ms
    Averages
    Concatenations
                                          1
    Filter
                                          None
    Coil elements
                                          HEA; HEP
```

None 3 deg

Contrast

Magn. preparation

Flip angle

Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Measurements	1
Reconstruction	Magnitude
Multiple series	Each measurement
	Each measurement
Resolution	
Base resolution	128
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
Slice resolution	100 %
Slice partial Fourier	6/8
Geometry	
Nr. of slab groups	1
Slabs	1
Dist. factor	50 %
Position	Isocenter
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	18.2 %
Slices per slab	88
Multi-slice mode	Single shot
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Water suppr.	None
Special sat.	None
Table position	P
	r
System	044
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	
	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
3	** * *

<pre>? Ref. amplitude 1H Position Rotation R >> L A >> P F >> H Frequency 1H Correction factor SRFExcit 1H Gain Table position Img. Scale. Cor. Physio 1st Signal/Mode Magn. preparation</pre>	0.000 V Isocenter 0.00 deg 350 mm 263 mm 350 mm 123.253687 MHz 1 27.667 V Low 0 mm 1.000 None None
Dark blood	Off
Resp. control	Off
Inline	044
Distortion correction Sequence	Off
Introduction	On
Dimension	3D
Elliptical scanning	Off
Averaging mode	Long term
Multi-slice mode	Single shot
Reordering	Linear Allowed
Asymmetric echo Bandwidth	540 Hz/Px
Flow comp.	No
Echo spacing	3 ms
Turbo factor	78
RF pulse type	Fast
Gradient mode	Fast
Excitation RF spoiling	Non-sel. On
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HEA; HEP
Acquisition duration	0 ms
Mode	Off
BOLD Subtract	Off
Save images	On
Autoscaling	Off
Scaling factor	1
Offset	0
Subtrahend	1
Subtraction indices	0.5.5
StdDev Std-Dev-Sag	Off Off
Std-Dev-Sag Std-Dev-Cor	Off
Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time Radial MIP	Off Off
Save original images	On
Save orraniar rinages	

```
Distortion Corr. Off
Save original images On
Number of radial views 1
Axis of radial views L-R
MPR Sag Off
MPR Cor Off
MPR Tra Off
```

\\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\SpinEchoFieldMap_RL TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse

Properties Off Prio Recon Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start Off Start measurements single Routine Nr. of slice groups 1 Slices 72 Dist. factor 0 % L0.0 P3.0 H6.0 mm Position T > C-20.0Orientation Phase enc. dir. R >> L AutoAlign Head > Brain 0 % Phase oversampling FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm TR 7080 ms ΤE 58.0 ms Multi-band accel. factor 1 Filter None Coil elements HEA; HEP Contrast MTC Off Magn. preparation None Flip angle 90 deg Fat suppr. Fat sat. Grad. rev. fat suppr. Disabled Averaging mode Long term Measurements 3 Delay in TR 0 ms Reconstruction Magnitude Multiple series Off Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off

None

PAT mode

Distortion Corr. Hamming Prescan Normalize Raw filter Elliptical filter	Off Off Off Off
Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Grad. rev. fat suppr. Special sat.	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None Disabled None
Table position	P
Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H Frequency 1H Correction factor AddCSaCSatNS 1H Gain Table position Img. Scale. Cor.	Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm 180 mm 144 mm 123.253687 MHz 1 40.921 V High O mm 1.000
Physio	
1st Signal/Mode Magn. preparation	None None
Inline	
Distortion correction Sequence	Off

```
Introduction
                                               Off
                                               Long term
     Averaging mode
     Multi-slice mode
                                               Interleaved
                                               2290 Hz/Px
     Bandwidth
     Echo spacing
                                               0.58 \, \mathrm{ms}
     EPI factor
                                               90
    RF pulse type
                                              Normal
     Gradient mode
                                              Fast
     Triggering scheme
                                              Standard
     TX/RX delta frequency
                                              0 Hz
     TX Nucleus
                                              None
     TX delta frequency
                                               0 Hz
     Coil elements
                                              HEA; HEP
     Acquisition duration
                                               0 ms
BOLD
     GLM Statistics
                                               Off
                                               Off
     Dynamic t-maps
     Starting ignore meas
                                               Ω
     Ignore after transition
                                               0
     Model transition states
                                              Off
     Temp. highpass filter
                                               Off
     Threshold
                                               4.00
     Paradigm size
    Motion correction
                                               Off
     Spatial filter
                                               Off
     Delay in TR
                                               0 ms
     Distortion Corr.
                                               Off
```

______ \USER\Lifespan\LS_Phase1b_14-55yo\SessionA\SpinEchoFieldMap_LR

TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse

```
Properties
    Prio Recon
                                             Off
    Before measurement
    After measurement
    Load to viewer
                                             On
    Inline movie
                                             Off
    Auto store images
                                             On
    Load to stamp segments
                                             Off
    Load images to graphic segments
                                            Off
    Auto open inline display
                                            Off
    Wait for user to start
                                            Off
     Start measurements
                                            single
```

Routine

TR

TE

Nr. of slice groups 72 Slices Dist. factor 0 % Position Orientation Phase enc. dir. AutoAlign Phase oversampling 0 % FoV read 208 mm 86.5 % FoV phase Slice thickness

L0.0 P3.0 H6.0 mm T > C-20.0R >> L Head > Brain

2.00 mm 7080 ms 58.0 ms

Multi-band accel. factor Filter Coil elements	1 None HEA;HEP
Contrast MTC Magn. preparation Flip angle Fat suppr. Grad. rev. fat suppr. Averaging mode Measurements Delay in TR	Off None 90 deg Fat sat. Disabled Long term 3 0 ms
Reconstruction Multiple series Resolution	Magnitude Off
Base resolution Phase resolution Phase partial Fourier Interpolation PAT mode Distortion Corr. Hamming Prescan Normalize Raw filter Elliptical filter Geometry	104 100 % Off Off None Off Off Off Off
Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Grad. rev. fat suppr. Special sat. Table position	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None Disabled None P
Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat	Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off

```
Assume Silicone
                                         Off
    Adjustment Tolerance
                                         Auto
    ? Ref. amplitude 1H
                                         0.000 V
    Position
                                         L0.0 P3.0 H6.0 mm
    Rotation
                                         90.00 deg
    A >> P
                                         208 mm
                                         180 mm
    R >> L
    F >> H
                                         144 mm
                                         123.253687 MHz
    Frequency 1H
    Correction factor
    AddCSaCSatNS 1H
                                         40.921 V
    Gain
                                        High
    Table position
                                         0 mm
    Img. Scale. Cor.
                                         1.000
Physio
    1st Signal/Mode
                                         None
    Magn. preparation
                                         None
                                         Off
    Distortion correction
Sequence
                                         Off
    Introduction
    Averaging mode
                                         Long term
    Multi-slice mode
                                         Interleaved
    Bandwidth
                                         2290 Hz/Px
    Echo spacing
                                         0.58 ms
    EPI factor
                                         90
    RF pulse type
                                        Normal
    Gradient mode
                                        Fast
    Triggering scheme
                                        Standard
    TX/RX delta frequency
                                        0 Hz
    TX Nucleus
                                        None
    TX delta frequency
                                         0 Hz
    Coil elements
                                        HEA; HEP
    Acquisition duration
                                         0 ms
BOLD
                                         Off
    GLM Statistics
    Dynamic t-maps
                                         Off
    Starting ignore meas
    Ignore after transition
    Model transition states
                                        Off
    Temp. highpass filter
                                         Off
    Threshold
                                         4.00
    Paradigm size
                                         3
    Motion correction
                                        Off
    Spatial filter
                                         Off
    Delay in TR
                                         0 ms
    Distortion Corr.
                                         Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
           ______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\rfMRI_REST_RL
        TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
______
Properties
    Prio Recon
                                         Off
    Before measurement
    After measurement
    Load to viewer
                                         On
    Inline movie
                                         Off
```

Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start On Start measurements single	
Routine	
Nr. of slice groups 1 Slices 72 Dist. factor 0 % Position L0.0 P3.0 H6.0 Orientation T > C-20.0 Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm TR 720 ms TE 33.20 ms Multi-band accel. factor 8	mm
Filter None	
Coil elements HEA;HEP Contrast	
MTC Off	
Magn. preparation None Flip angle 52 deg	
Fat suppr. Fat sat.	
Averaging mode Long term	
Measurements 420	
Delay in TR 0 ms	
Reconstruction Magnitude	
Multiple series Off	
Resolution Base resolution 104	
Phase resolution 100 %	
Phase partial Fourier Off	
Interpolation Off	
PAT mode None	
Distortion Corr. Off	
Hamming Off Prescan Normalize Off	
Prescan Normalize Off Raw filter Off	
Elliptical filter Off	
Geometry	
Nr. of slice groups 1	
Slices 72 Dist. factor 0 %	
Dist. factor 0 % Position L0.0 P3.0 H6.0	mm
Phase enc. dir. R >> L	111111
Phase oversampling 0 %	
Multi-slice mode Interleaved	
Series Interleaved	
Nr. of sat. regions 0	
Position mode L-P-H Fat suppr. Fat sat.	
Special sat. None	
Special sat. None	
Table position P	
System	

Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	REF
Table position	H
Table position	O mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default.
Shim mode	Standard
Adjust with body coil	Off
	Off
Confirm freq. adjustment Assume Dominant Fat	Off
	_
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	208 mm
R >> L	180 mm
F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
MBExc 1H	280.027 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	
1st Signal/Mode	None
Magn. preparation	None
Inline	
Distortion correction	Off
Sequence	
Introduction	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	2290 Hz/Px
Echo spacing	0.58 ms
EPI factor	90
Gradient mode	Fast
Online multi-band recon.	Remote
Triggering scheme	Standard
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HEA; HEP
Acquisition duration	0 ms
BOLD	o ins
GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00

Paradigm size 3
Motion correction Off
Spatial filter Off
Delay in TR 0 ms
Distortion Corr. Off

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\\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\rfMRI_REST_LR TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid ______ Properties Prio Recon Off Before measurement After measurement On Load to viewer Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start On Start measurements single Routine Nr. of slice groups Slices 72 Dist. factor 0 % Position L0.0 P3.0 H6.0 mm Orientation T > C-20.0Phase enc. dir. R >> L Head > Brain AutoAlign Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm ΤR 720 ms 33.20 ms Multi-band accel. factor 8 Filter None Coil elements HEA; HEP Contrast MTC Off Magn. preparation None Flip angle 52 deg Fat suppr. Fat sat. Averaging mode Long term 420 Measurements Delay in TR 0 ms Reconstruction Magnitude Off Multiple series Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Distortion Corr. Off Hamming Off Prescan Normalize Off

Raw filter	Off
Elliptical filter Geometry	Off
Nr. of slice groups	1
Slices	72
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H Fat sat.
Fat suppr. Special sat.	None
Special sat.	None
Table position	P
System	-
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal Coronal	R >> L A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H Position	0.000 V
Rotation	L0.0 P3.0 H6.0 mm 90.00 deg
A >> P	208 mm
R >> L	180 mm
F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
MBExc 1H	280.027 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	
1st Signal/Mode	None
Magn. preparation Inline	None
Distortion correction	Off
Sequence	011
Introduction	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	2290 Hz/Px

```
Echo spacing
                                              0.58 \, \text{ms}
     EPI factor
                                              90
     Gradient mode
                                             Fast
     Online multi-band recon.
                                             Remote
     Triggering scheme
                                             Standard
     TX/RX delta frequency
                                             0 Hz
     TX Nucleus
                                             None
     TX delta frequency
                                             0 Hz
     Coil elements
                                             HEA; HEP
     Acquisition duration
                                              0 ms
BOLD
     GLM Statistics
                                              Off
                                              Off
     Dynamic t-maps
     Starting ignore meas
     Ignore after transition
                                              0
                                             On
     Model transition states
     Temp. highpass filter
                                              On
     Threshold
                                              4.00
     Paradigm size
                                              3
     Motion correction
                                              Off
     Spatial filter
                                              Off
     Delay in TR
                                              0 ms
    Distortion Corr.
                                              Off
                   SIEMENS MAGNETOM ConnectomS syngo MR D11
          \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\T1w_MPR
         TA:6:38 PAT:2 Voxel size:0.8x0.8x0.8 mm Rel. SNR:1.00 :tfl
Properties
    Prio Recon
                                              Off
     Before measurement
     After measurement
     Load to viewer
                                              On
                                              Off
     Inline movie
    Auto store images
                                              On
     Load to stamp segments
                                              Off
     Load images to graphic segments
                                             Off
     Auto open inline display
                                             Off
     Wait for user to start
                                              On
     Start measurements
                                             single
Routine
    Nr. of slab groups
                                              1
     Slabs
                                              1
    Dist. factor
                                             50 %
     Position
                                              Isocenter
     Orientation
                                              Sagittal
                                             A >> P
     Phase enc. dir.
     AutoAliqn
                                             Head > Brain
     Phase oversampling
                                              0 %
     Slice oversampling
                                              23.1 %
     FoV read
                                              256 mm
     FoV phase
                                              93.8 %
     Slice thickness
                                              0.80 mm
                                              2400.0 ms
     TR
     TE
                                              2.12 ms
```

1

Prescan Normalize

Averages

Filter

Concatenations

Coil elements	HEA; HEP		
Contrast Magn. preparation	Non-sel. IR		
TI	1000 ms		
Flip angle	8 deg		
Fat suppr.	Water excit. fast		
Water suppr.	None		
Averaging mode	Long term		
Measurements	1		
Reconstruction	Magnitude		
Multiple series	Each measurement		
Resolution	220		
Base resolution Phase resolution	320 100 %		
Phase resolution Phase partial Fourier	Off		
Interpolation	Off		
PAT mode	GRAPPA		
Accel. factor PE	2		
Ref. lines PE	32		
Reference scan mode	Integrated		
Image Filter	Off		
Distortion Corr.	Off		
Accel. factor 3D	1		
Unfiltered images	On		
Prescan Normalize	On		
Normalize	Off		
B1 filter	Off		
Raw filter Elliptical filter	Off Off		
Slice resolution	100 %		
Slice partial Fourier	Off		
Geometry	OII		
Nr. of slab groups	1		
Slabs	1		
Dist. factor	50 %		
Position	Isocenter		
Phase enc. dir.	A >> P		
Phase oversampling	0 %		
Slice oversampling	23.1 %		
Slices per slab	208		
Multi-slice mode	Single shot		
Series Nr. of sat. regions	Interleaved 0		
Position mode	L-P-H		
Fat suppr.	Water excit. fast		
Water suppr.	None		
Special sat.	None		
Table position	P		
System			
Body	Off		
HEP	On		
HEA	On		
Position mode	L-P-H		
Positioning mode	FIX		
Table position Table position	H O mm		
MSMA	0 mm S - C - T		
Sagittal	R >> L		
Coronal	A >> P		
Transversal	F >> H		

Save uncombined Coil Combine Mode AutoAlign Auto Coil Select Shim mode	Off Adaptive Combine Head > Brain Default Standard
Adjust with body coil Confirm freq. adjustment	Off Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H ! Position	0.000 V L0.0 P3.0 H6.0 mm
! Rotation	90.00 deg
! A >> P	208 mm
! R >> L	180 mm
! F >> H Frequency 1H	144 mm 123.253687 MHz
Correction factor	1 1
ExcitWEns 0 1H	36.889 V
Gain	Low
Table position Img. Scale. Cor.	0 mm 5.000
Physio	3.000
1st Signal/Mode	None
Magn. preparation	Non-sel. IR
TI Dark blood	1000 ms Off
Resp. control	Off
Inline	
Distortion correction	Off
Sequence Introduction	On
Dimension	3D
Elliptical scanning	Off
Averaging mode	Long term
Multi-slice mode	Single shot Linear
Reordering Asymmetric echo	Allowed
Bandwidth	210 Hz/Px
Flow comp.	No
Echo spacing	7.5 ms
Turbo factor	256 East
RF pulse type Gradient mode	Fast Fast
Excitation	Non-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz
TX Nucleus TX delta frequency	None 0 Hz
Coil elements	HEA; HEP
Acquisition duration	0 ms
Mode	Off
BOLD Subtract	Off
Save images	On
Autoscaling	Off
Scaling factor	1
Offset	0
Subtrahend Subtraction indices	1

```
StdDev
                                      Off
                                      Off
    Std-Dev-Sag
    Std-Dev-Cor
                                      Off
                                      Off
    Std-Dev-Tra
                                      Off
    Std-Dev-Time
                                      Off
    MIP-Sag
                                      Off
    MIP-Cor
    MIP-Tra
                                      Off
    MIP-Time
                                      Off
    Radial MIP
                                      Off
    Save original images
                                      On
    Distortion Corr.
                                      Off
    Save original images
                                      On
    Number of radial views
                                      1
    Axis of radial views
                                      L-R
    MPR Sag
                                      Off
    MPR Cor
                                      Off
    MPR Tra
                                      Off
               SIEMENS MAGNETOM ConnectomS syngo MR D11
______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\T2w_SPC
        TA:5:57 PAT:2 Voxel size:0.8x0.8x0.8 mm Rel. SNR:1.00 :spc
------
Properties
                                      Off
    Prio Recon
    Before measurement
    After measurement
    Load to viewer
                                      On
    Inline movie
                                      Off
    Auto store images
                                      On
    Load to stamp segments
                                      Off
                                     Off
    Load images to graphic segments
    Auto open inline display
                                      Off
    Wait for user to start
                                      On
    Start measurements
                                      single
Routine
    Nr. of slab groups
    Slabs
    Position
                                      Isocenter
    Orientation
                                      Sagittal
    Phase enc. dir.
                                      A >> P
    AutoAlign
                                      Head > Brain
    Phase oversampling
                                      0 %
    Slice oversampling
                                      0.0 %
    FoV read
                                      256 mm
    FoV phase
                                      93.8 %
    Slice thickness
                                      0.80 mm
                                      3200 ms
    TR
    TE
                                      563.0 ms
```

Prescan Normalize

HEA; HEP

Off

None

None

None Off

Concatenations

Coil elements

Fat suppr.

Water suppr.

Restore magn.

Magn. preparation

Filter

Contrast

MTC

Measurements		1
Reconstruction		
		Magnitude
Multiple serie Resolution	:5	Each measurement
Base resolution		320
Phase resoluti		100 %
Phase partial	Fourier	Allowed
Interpolation		Off
PAT mode		GRAPPA
Accel. factor	PE PE	2
Ref. lines PE	1	32
Reference scan	n mode	Integrated
Image Filter		Off
Distortion Cor		Off
Accel. factor		1
Unfiltered ima	5	On
Prescan Normal	.ize	On
Normalize		Off
B1 filter		Off
Raw filter		Off
Elliptical fil		Off
Slice resoluti	.on	100 %
Slice partial	Fourier	Off
Geometry		
Nr. of slab gr	roups	1
Slabs		1
Position		Isocenter
Phase enc. dir		A >> P
Phase oversamp	oling	0 %
Slice oversamp	oling	0.0 %
Slices per sla	ab	208
Series		Interleaved
Nr. of sat. re	egions	0
Position mode	_	L-P-H
Fat suppr.		None
Water suppr.		None
Special sat.		None
Special sat.		None
Table position	1	P
Restore magn.		Off
System		
Body		Off
HEP		On
HEA		On
Position mode		L-P-H
Positioning mo	ode	FIX
Table position		Н
Table position		0 mm
MSMA	•	S - C - T
Sagittal		R >> L
Coronal		A >> P
Transversal		F >> H
Save uncombine	ha	Off
Coil Combine M		Adaptive Combine
AutoAlign	.040	Head > Brain
Auto Coil Sele	act	Default
Shim mode		Standard
Adjust with bo	ndy goil	Off
Confirm freq.		Off
Assume Dominan		Off
ASSUME DOMITHAN	ıc rat	OLI

Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H ! Position	Off Auto 0.000 V L0.0 P3.0 H6.0 mm
! Rotation	90.00 deg
! A >> P ! R >> L	208 mm 180 mm
! F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
SRFExcit 1H	138.333 V
! Gain	High
Table position	0 mm
Img. Scale. Cor.	5.000
Physio	
1st Signal/Mode	None
Trigger delay	0 ms
Magn. preparation	None
Dark blood	Off Off
Resp. control Inline	OII
Distortion correction	Off
Sequence	OII
Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Bandwidth	744 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	3.43 ms
Adiabatic-mode	Off
Turbo factor	314
Echo train duration	1074
RF pulse type Gradient mode	Fast Fast
Excitation	Non-sel.
Flip angle mode	T2 var
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HEA;HEP
Acquisition duration	0 ms
Organ under exam.	None
BOLD	
Subtract	Off
Save images	On
Autoscaling	Off
Scaling factor Offset	1 0
Subtrahend	1
Subtraction indices	1
StdDev	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
Radial MIP
                                        Off
Save original images
                                        On
Distortion Corr.
                                        Off
Save original images
                                        On
Number of radial views
                                        1
Axis of radial views
                                        L-R
MPR Sag
                                        Off
MPR Cor
                                        Off
MPR Tra
                                        Off
```

______ \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\SpinEchoFieldMap_RL

```
TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse
Properties
                                            Off
    Prio Recon
    Before measurement
    After measurement
    Load to viewer
                                            On
    Inline movie
                                            Off
    Auto store images
    Load to stamp segments
                                            Off
    Load images to graphic segments
                                            Off
    Auto open inline display
                                            Off
    Wait for user to start
                                            On
    Start measurements
                                            single
Routine
    Nr. of slice groups
                                            1
                                            72
    Slices
    Dist. factor
                                            0 왕
                                            L0.0 P3.0 H6.0 mm
    Position
                                            T > C-20.0
    Orientation
    Phase enc. dir.
                                            R >> L
    AutoAlign
                                            Head > Brain
    Phase oversampling
                                            0 왕
    FoV read
                                            208 mm
    FoV phase
                                            86.5 %
    Slice thickness
                                            2.00 mm
                                            7080 ms
                                            58.0 ms
    Multi-band accel. factor
                                            1
    Filter
                                            None
    Coil elements
                                            HEA; HEP
Contrast
                                            Off
    MTC
    Magn. preparation
                                            None
    Flip angle
                                            90 deg
                                            Fat sat.
    Fat suppr.
    Grad. rev. fat suppr.
                                            Disabled
    Averaging mode
                                            Long term
    Measurements
    Delay in TR
                                            0 ms
    Reconstruction
                                            Magnitude
                                            Off
    Multiple series
Resolution
    Base resolution
                                            104
    Phase resolution
                                            100 %
```

	Phase partial Fourier Interpolation PAT mode Distortion Corr. Hamming Prescan Normalize Raw filter Elliptical filter	Off Off None Off Off Off Off Off
Geome		OII
	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved O
	Nr. of sat. regions Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Grad. rev. fat suppr.	Disabled
	Special sat.	None
	Table position	P
Syste	m	
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position Table position	H O mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Standard
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat Assume Silicone	Off Off
	Assume Silicone Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	L0.0 P3.0 H6.0 mm
	Rotation	90.00 deg
	A >> P	208 mm
	R >> L	180 mm
	F >> H	144 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	AddCSaCSatNS 1H	40.921 V
	Gain	High
	Table position	0 mm 1.000
Physi	Img. Scale. Cor.	1.000
	o 1st Signal/Mode	None
	Magn. preparation	None
		1.0110

```
Distortion correction
                                          Off
Sequence
                                          Off
    Introduction
    Averaging mode
                                          Long term
    Multi-slice mode
                                          Interleaved
                                          2290 Hz/Px
    Bandwidth
    Echo spacing
                                          0.58 \, \mathrm{ms}
    EPI factor
                                          90
    RF pulse type
                                          Normal
    Gradient mode
                                          Fast
    Triggering scheme
                                          Standard
    TX/RX delta frequency
                                          0 Hz
    TX Nucleus
                                          None
    TX delta frequency
                                          0 Hz
    Coil elements
                                          HEA; HEP
    Acquisition duration
                                          0 ms
BOLD
    GLM Statistics
                                          Off
    Dynamic t-maps
                                          Off
    Starting ignore meas
                                          Ω
    Ignore after transition
                                          0
    Model transition states
                                          Off
    Temp. highpass filter
                                          Off
    Threshold
                                          4.00
    Paradigm size
    Motion correction
                                          Off
    Spatial filter
                                          Off
    Delay in TR
                                          0 ms
    Distortion Corr.
                                          Off
              SIEMENS MAGNETOM ConnectomS syngo MR D11
______
          \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\SpinEchoFieldMap_LR
        TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse
    Prio Recon
                                          Off
    Before measurement
    After measurement
    Load to viewer
                                          On
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          Off
    Load images to graphic segments
                                        Off
    Auto open inline display
                                          Off
    Wait for user to start
                                          Off
    Start measurements
                                          single
Routine
    Nr. of slice groups
    Slices
                                          72
    Dist. factor
                                          0 %
    Position
                                          L0.0 P3.0 H6.0 mm
    Orientation
                                          T > C-20.0
    Phase enc. dir.
                                          R >> L
                                          Head > Brain
    AutoAlign
    Phase oversampling
                                          0 %
    FoV read
                                          208 mm
    FoV phase
                                          86.5 %
```

Inline

	Slice thickness TR TE Multi-band accel. factor Filter Coil elements	2.00 mm 7080 ms 58.0 ms 1 None HEA;HEP
Cont	rast	
	MTC Magn. preparation Flip angle Fat suppr.	Off None 90 deg Fat sat.
	Grad. rev. fat suppr.	Disabled
	Averaging mode	Long term
	Measurements	3
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	011
11000	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom	etry	011
	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Grad. rev. fat suppr.	Disabled
	Special sat.	None
	Table position	P
Syst	em	
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Standard

```
Adjust with body coil
                                           Off
    Confirm freq. adjustment
                                           Off
    Assume Dominant Fat
                                           Off
    Assume Silicone
                                           Off
    Adjustment Tolerance
                                           Auto
                                           0.000 V
    ? Ref. amplitude 1H
                                           L0.0 P3.0 H6.0 mm
    Position
    Rotation
                                           90.00 deg
    A >> P
                                           208 mm
    R >> L
                                           180 mm
    F >> H
                                           144 mm
    Frequency 1H
                                           123.253687 MHz
    Correction factor
    AddCSaCSatNS 1H
                                           40.921 V
    Gain
                                           High
    Table position
                                           0 mm
    Img. Scale. Cor.
                                           1.000
Physio
    1st Signal/Mode
                                           None
    Magn. preparation
                                           None
Inline
    Distortion correction
                                           Off
Sequence
    Introduction
                                           Off
    Averaging mode
                                           Long term
    Multi-slice mode
                                           Interleaved
    Bandwidth
                                           2290 Hz/Px
                                           0.58 \, \text{ms}
    Echo spacing
    EPI factor
                                           90
    RF pulse type
                                           Normal
                                           Fast
    Gradient mode
    Triggering scheme
                                           Standard
    TX/RX delta frequency
                                           0 Hz
    TX Nucleus
                                           None
    TX delta frequency
                                           0 Hz
    Coil elements
                                           HEA; HEP
    Acquisition duration
                                           0 ms
BOLD
    GLM Statistics
                                           Off
    Dynamic t-maps
                                           Off
    Starting ignore meas
    Ignore after transition
                                           0
    Model transition states
                                           Off
    Temp. highpass filter
                                           Off
    Threshold
                                           4.00
    Paradigm size
                                           3
    Motion correction
                                           Off
    Spatial filter
                                           Off
    Delay in TR
                                           0 ms
    Distortion Corr.
                                           Off
              SIEMENS MAGNETOM ConnectomS syngo MR D11
              ______
         \USER\Lifespan\LS_Phase1b_14-55yo\SessionA\rfMRI_REST_RL
         TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
    Prio Recon
                                           Off
```

Before measurement

7.f+ 0.72 mos	a auromon t		
After mea		•	
Load to v		On	
Inline mo		Off	
Auto stor	_	On	
Load to s	stamp segments	Off	
Load imag	ges to graphic segments	Off	
Auto oper	n inline display	Off	
_	user to start	On	
Start mea	asurements	single	
Routine		5	
	lice groups	1	
Slices	rice groups	72	
Dist. fac	**		
	ctor	0 %	
Position		L0.0 P3.0 H6.0	mm
Orientati		T > C-20.0	
Phase end		R >> L	
AutoAligr	า	Head > Brain	
Phase ove	ersampling	0 %	
FoV read		208 mm	
FoV phase	2	86.5 %	
Slice thi		2.00 mm	
TR		720 ms	
TE		33.20 ms	
	nd accel. factor	8	
	id accel. lactor	_	
Filter		None	
Coil eler	ments	HEA;HEP	
Contrast			
MTC		Off	
	eparation	None	
Flip angl	Le	52 deg	
Fat suppi	£ .	Fat sat.	
Averaging	g mode	Long term	
Measureme	ents	420	
Delay in	TR	0 ms	
Reconstru		Magnitude	
Multiple		Off	
Resolution	BCIICB	OII	
Base reso	olu+ion	104	
Phase res		100 %	
	rtial Fourier	Off	
Interpola	ation	Off	
PAT mode		None	
Distortio	on Corr.	Off	
Hamming		Off	
Prescan N	Normalize	Off	
Raw filte	er	Off	
Elliptica	al filter	Off	
Geometry			
-	lice groups	1	
Slices	rice groups	72	
	rt or	0 %	
Dist. fac	COT		
Position	. 4:	L0.0 P3.0 H6.0	ııım
Phase end		R >> L	
	ersampling	0 %	
Multi-sli	ice mode	Interleaved	
Series		Interleaved	
	at. regions	0	
Position	mode	L-P-H	
Fat suppi		Fat sat.	
Specials		None	
N	•		

	Choosin l ant	None	
	Special sat. Table position	None P	
Crrata		P	
Syste	Body	Off	
	HEP	On	
	HEA	On	
	Position mode	L-P-H	
	Positioning mode	REF	
	Table position	Н	
	Table position	0 mm	
	MSMA	S - C - T	
	Sagittal	R >> L	
	Coronal	A >> P	
	Transversal	F >> H	
	Coil Combine Mode	Sum of Squares	
	AutoAlign	Head > Brain	
	Auto Coil Select	Default	
	Shim mode	Standard	
	Adjust with body coil	Off	
	Confirm freq. adjustment	Off	
	Assume Dominant Fat	Off	
	Assume Silicone	Off	
	Adjustment Tolerance	Auto	
	? Ref. amplitude 1H	0.000 V	
	Position	L0.0 P3.0 H6.0 mm	
	Rotation	90.00 deg	
	A >> P	208 mm	
	R >> L	180 mm	
	F >> H	144 mm	
	Frequency 1H	123.253687 MHz	
	Correction factor	1	
	MBExc 1H	280.027 V	
	Gain	High	
	Table position	0 mm	
	Img. Scale. Cor.	1.000	
Physi			
	1st Signal/Mode	None	
	Magn. preparation	None	
Inlir		0.5.5	
Q	Distortion correction	Off	
Seque		055	
	Introduction	Off Long term	
	Averaging mode Multi-slice mode	Interleaved	
	Bandwidth	2290 Hz/Px	
	Echo spacing	0.58 ms	
	EPI factor	90	
	Gradient mode	Fast	
	Online multi-band recon.	Remote	
	Triggering scheme	Standard	
	TX/RX delta frequency	0 Hz	
	TX Nucleus	None	
	TX delta frequency	0 Hz	
	Coil elements	HEA; HEP	
	Acquisition duration	0 ms	
BOLD			
	GLM Statistics	Off	
	Dynamic t-maps	Off	
	Starting ignore meas	0	
	Ignore after transition	0	

```
Model transition states
                                        On
Temp. highpass filter
                                        On
Threshold
                                        4.00
Paradigm size
                                        3
Motion correction
                                        Off
                                        Off
Spatial filter
                                        0 ms
Delay in TR
Distortion Corr.
                                        Off
```

\\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\rfMRI_REST_LR TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid

```
Properties
                                             Off
     Prio Recon
     Before measurement
     After measurement
     Load to viewer
                                             On
     Inline movie
                                             Off
     Auto store images
                                             On
     Load to stamp segments
                                             Off
     Load images to graphic segments
                                             Off
     Auto open inline display
                                             Off
     Wait for user to start
                                             On
     Start measurements
                                             single
Routine
    Nr. of slice groups
                                             1
     Slices
                                             72
                                             0 %
    Dist. factor
                                             L0.0 P3.0 H6.0 mm
     Position
                                             T > C-20.0
     Orientation
     Phase enc. dir.
                                             R >> L
    AutoAlign
                                             Head > Brain
     Phase oversampling
                                             0 왕
    FoV read
                                             208 mm
     FoV phase
                                             86.5 %
     Slice thickness
                                             2.00 mm
                                             720 ms
                                             33.20 ms
    Multi-band accel. factor
    Filter
                                             None
    Coil elements
                                             HEA; HEP
Contrast
                                             Off
     MTC
     Magn. preparation
                                             None
                                             52 deg
     Flip angle
     Fat suppr.
                                             Fat sat.
     Averaging mode
                                             Long term
                                             420
    Measurements
    Delay in TR
                                             0 ms
     Reconstruction
                                             Magnitude
     Multiple series
                                             Off
Resolution
     Base resolution
                                             104
     Phase resolution
                                             100 %
     Phase partial Fourier
                                             Off
     Interpolation
                                             Off
```

None

PAT mode

Distortion Corr. Hamming Prescan Normalize Raw filter Elliptical filter Geometry	Off Off Off Off
Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Special sat. Table position	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None None P
System Body	Off
HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H Frequency 1H Correction factor MBExc 1H Gain Table position Img. Scale. Cor. Physio	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm 180 mm 144 mm 123.253687 MHz 1 280.027 V High O mm 1.000
1st Signal/Mode Magn. preparation	None None
Inline Distortion correction Sequence	Off
Introduction	Off

```
Averaging mode
                                          Long term
    Multi-slice mode
                                          Interleaved
                                          2290 Hz/Px
    Bandwidth
    Echo spacing
                                          0.58 \, \mathrm{ms}
    EPI factor
                                          90
    Gradient mode
                                          Fast
    Online multi-band recon.
                                          Remote
    Triggering scheme
                                          Standard
    TX/RX delta frequency
                                          0 Hz
    TX Nucleus
                                          None
    TX delta frequency
                                          0 Hz
    Coil elements
                                          HEA; HEP
    Acquisition duration
                                          0 ms
BOLD
    GLM Statistics
                                          Off
    Dynamic t-maps
                                          Off
    Starting ignore meas
                                          0
    Ignore after transition
                                          0
    Model transition states
                                          On
    Temp. highpass filter
                                          On
    Threshold
                                          4.00
    Paradigm size
    Motion correction
                                          Off
    Spatial filter
                                          Off
    Delay in TR
                                          0 ms
    Distortion Corr.
                                          Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
______
          \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\tfMRI_WM_RL
        TA:5:01 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
                                          Off
    Prio Recon
    Before measurement
    After measurement
    Load to viewer
                                          On
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          Off
    Load images to graphic segments
                                          Off
    Auto open inline display
                                          Off
    Wait for user to start
                                          On
    Start measurements
                                          single
Routine
    Nr. of slice groups
                                          72
    Slices
    Dist. factor
                                          0 %
    Position
                                          L0.0 P3.0 H6.0 mm
                                          T > C-20.0
    Orientation
    Phase enc. dir.
                                          R >> L
    AutoAlign
                                          Head > Brain
    Phase oversampling
                                          0 %
    FoV read
                                          208 mm
                                          86.5 %
    FoV phase
    Slice thickness
                                          2.00 mm
    TR
                                          720 ms
```

33.20 ms

TE

Multi-band accel. factor

	T116	NT
	Filter	None
a .	Coil elements	HEA;HEP
Cont	crast	0.5.5
	MTC	Off
	Magn. preparation	None
	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	405
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Resc	olution	
	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
Q	Elliptical filter	Off
Geon	netry	1
	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Special sat.	None
	Table position	P
Syst	cem	
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	
		Standard
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V

```
Position
                                        L0.0 P3.0 H6.0 mm
                                        90.00 deg
    Rotation
    A >> P
                                        208 mm
                                        180 mm
    R >> L
                                        144 mm
    F >> H
                                        123.253687 MHz
    Frequency 1H
    Correction factor
                                        1
    MBExc 1H
                                        280.027 V
    Gain
                                        High
    Table position
                                        0 mm
    Img. Scale. Cor.
                                        1.000
Physio
    1st Signal/Mode
                                        None
    Magn. preparation
                                        None
Inline
                                        Off
    Distortion correction
Sequence
                                        Off
    Introduction
    Averaging mode
                                        Long term
    Multi-slice mode
                                        Interleaved
    Bandwidth
                                        2290 Hz/Px
    Echo spacing
                                        0.58 ms
    EPI factor
                                        90
    Gradient mode
                                        Fast
    Online multi-band recon.
                                        Remote
    Triggering scheme
                                        Standard
    TX/RX delta frequency
                                        0 Hz
    TX Nucleus
                                        None
    TX delta frequency
                                        0 Hz
    Coil elements
                                        HEA; HEP
    Acquisition duration
                                        0 ms
BOLD
    GLM Statistics
                                        Off
                                        Off
    Dynamic t-maps
    Starting ignore meas
                                        0
    Ignore after transition
                                        0
    Model transition states
                                        On
    Temp. highpass filter
                                        On
    Threshold
                                        4.00
    Paradigm size
                                        3
    Motion correction
                                        Off
    Spatial filter
                                        Off
    Delay in TR
                                        0 ms
    Distortion Corr.
                                        Off
           SIEMENS MAGNETOM ConnectomS syngo MR D11
              _____
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\tfMRI_WM_LR
        TA:5:01 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
______
Properties
    Prio Recon
                                        Off
    Before measurement
    After measurement
    Load to viewer
                                        On
    Inline movie
                                        Off
    Auto store images
                                        On
    Load to stamp segments
                                        Off
    Load images to graphic segments
                                       Off
```

Auto open inline display	Off
Wait for user to start	On
Start measurements	single
Routine	
Nr. of slice groups	1
Slices	72
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Orientation	T > C-20.0
Phase enc. dir.	R >> L
AutoAlign	Head > Brain 0 %
Phase oversampling FoV read	208 mm
FoV read FoV phase	86.5 %
Slice thickness	2.00 mm
TR	720 ms
TE	33.20 ms
Multi-band accel. factor	8
Filter	None
Coil elements	HEA; HEP
Contrast	
MTC	Off
Magn. preparation	None
Flip angle	52 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Measurements	405
Delay in TR	0 ms
Reconstruction	Magnitude
Multiple series	Off
Resolution	
Base resolution	104
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Distortion Corr.	Off
Hamming	Off
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Geometry	1
Nr. of slice groups Slices	72
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Phase enc. dir.	R >> T ₁
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Special sat.	None
Table position	P
System	
Body	Off
HEP	On
HEA	On

	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T R >> L
	Sagittal Coronal	R >> L A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Standard
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	L0.0 P3.0 H6.0 mm
	Rotation	90.00 deg
	A >> P	208 mm
	R >> L	180 mm
	F >> H	144 mm 123.253687 MHz
	Frequency 1H Correction factor	123.25368/ MHZ
	MBExc 1H	280.027 V
	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys		
-	1st Signal/Mode	None
	Magn. preparation	None
Inli		
	Distortion correction	Off
Sequ		
	Introduction	Off
	Averaging mode	Long term
	Multi-slice mode	Interleaved
	Bandwidth	2290 Hz/Px
	Echo spacing EPI factor	0.58 ms 90
	Gradient mode	Fast
	Online multi-band recon.	Remote
	Triggering scheme	Standard
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HEA;HEP
	Acquisition duration	0 ms
BOLD		
	GLM Statistics	Off
	Dynamic t-maps	Off
	Starting ignore meas	0
	Ignore after transition	0
	Model transition states	On
	Temp. highpass filter Threshold	On 4.00
	Paradigm size	3
	Motion correction	Off
	Spatial filter	Off
	ppactar rirect	OLI.

Geometry

0 ms

SIEMENS MAGNETOM ConnectomS syngo MR D11

______ \USER\Lifespan\LS_Phase1b_14-55yo\SessionA\tfMRI_EMOTION_RL TA:2:33 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid ______ Properties Off Prio Recon Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Off Load images to graphic segments Auto open inline display Off Wait for user to start On Start measurements single Routine Nr. of slice groups 72 Slices Dist. factor 0 % Position L0.0 P3.0 H6.0 mm T > C-20.0Orientation Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % 2.00 mm Slice thickness TR 720 ms TE33.20 ms Multi-band accel. factor 8 Filter None Coil elements HEA; HEP Contrast MTC Off Magn. preparation None Flip angle 52 deg Fat suppr. Fat sat. Averaging mode Long term Measurements 199 Delay in TR 0 ms Reconstruction Magnitude Multiple series Off Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Distortion Corr. Off Hamming Off Prescan Normalize Off Raw filter Off Elliptical filter Off

Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Special sat.	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None None
Table position	P
System	0.5.5
Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H Frequency 1H Correction factor MBExc 1H Gain Table position	Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm 180 mm 144 mm 123.253687 MHz 1 280.027 V High O mm
Img. Scale. Cor.	1.000
Physio	
1st Signal/Mode Magn. preparation Inline	None None
Distortion correction	Off
Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode	Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast

```
Online multi-band recon.
                                          Remote
    Triggering scheme
                                          Standard
    TX/RX delta frequency
                                          0 Hz
    TX Nucleus
                                          None
    TX delta frequency
                                          0 Hz
    Coil elements
                                          HEA; HEP
    Acquisition duration
                                          0 ms
BOLD
                                          Off
    GLM Statistics
    Dynamic t-maps
                                          Off
    Starting ignore meas
                                          0
    Ignore after transition
                                          0
    Model transition states
                                          On
    Temp. highpass filter
                                          On
    Threshold
                                          4.00
    Paradigm size
                                          3
    Motion correction
                                          Off
                                          Off
    Spatial filter
    Delay in TR
                                          0 ms
    Distortion Corr.
                                          Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
______
          \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\tfMRI_EMOTION_LR
         TA:2:33 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
    Prio Recon
                                          Off
    Before measurement
    After measurement
    Load to viewer
                                          On
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          Off
    Load images to graphic segments
                                          Off
    Auto open inline display
                                          Off
    Wait for user to start
                                          On
    Start measurements
                                          single
Routine
    Nr. of slice groups
    Slices
                                          72
    Dist. factor
                                          0 %
    Position
                                         L0.0 P3.0 H6.0 mm
    Orientation
                                         T > C-20.0
    Phase enc. dir.
                                         R >> L
    AutoAlign
                                         Head > Brain
    Phase oversampling
                                          0 왕
    FoV read
                                          208 mm
    FoV phase
                                          86.5 %
                                          2.00 mm
    Slice thickness
    TR
                                          720 ms
                                          33.20 ms
    Multi-band accel. factor
    Filter
                                          None
    Coil elements
                                          HEA; HEP
Contrast
    MTC
                                          Off
    Magn. preparation
                                          None
```

52 deg

Flip angle

	Eat gupps	Fat sat.
	Fat suppr.	
	Averaging mode	Long term
	Measurements	199
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	
	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom	etry	011
acon	Nr. of slice groups	1
	Slices	72
		0 %
	Dist. factor	
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Special sat.	None
	Table position	P
Syst	em	
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	Н
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	
		Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Standard
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	L0.0 P3.0 H6.0 mm
	Rotation	90.00 deg
	A >> P	208 mm
	R >> L	180 mm
	F >> H	144 mm
	Frequency 1H	123.253687 MHz
	- -	-

```
MBExc 1H
                                            280.027 V
    Gain
                                            High
    Table position
                                            0 mm
                                            1.000
    Img. Scale. Cor.
Physio
    1st Signal/Mode
                                            None
    Magn. preparation
                                            None
Inline
                                            Off
    Distortion correction
Sequence
    Introduction
                                            Off
    Averaging mode
                                            Long term
    Multi-slice mode
                                            Interleaved
    Bandwidth
                                            2290 Hz/Px
    Echo spacing
                                            0.58 ms
    EPI factor
                                            90
    Gradient mode
                                            Fast
    Online multi-band recon.
                                            Remote
    Triggering scheme
                                            Standard
    TX/RX delta frequency
                                            0 Hz
    TX Nucleus
                                            None
    TX delta frequency
                                            0 Hz
    Coil elements
                                            HEA; HEP
    Acquisition duration
                                            0 ms
BOLD
                                            Off
    GLM Statistics
    Dynamic t-maps
                                            Off
    Starting ignore meas
                                            0
    Ignore after transition
                                            0
    Model transition states
                                            On
    Temp. highpass filter
                                            On
    Threshold
                                            4.00
    Paradigm size
                                            3
    Motion correction
                                            Off
    Spatial filter
                                            Off
    Delay in TR
                                            0 ms
    Distortion Corr.
                                            Off
                 SIEMENS MAGNETOM ConnectomS syngo MR D11
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionA\T1w_vNav_3e
         TA:9:40 PAT:2 Voxel size:0.8x0.8x0.8 mm Rel. SNR:1.00 :tfl
Properties
    Prio Recon
                                            Off
    Before measurement
    After measurement
    Load to viewer
                                            On
    Inline movie
                                            Off
    Auto store images
                                            On
    Load to stamp segments
                                            Off
    Load images to graphic segments
                                           Off
    Auto open inline display
                                            Off
    Wait for user to start
                                            On
    Start measurements
                                            single
Routine
    Nr. of slab groups
                                            1
    Slabs
                                            1
```

1

Correction factor

	Dist. factor	50 %
	Position	Isocenter
	Orientation	Sagittal
	Phase enc. dir.	A >> P
	AutoAlign	Head > Brain
	Phase oversampling	0 %
	Slice oversampling	0.0 %
	FoV read	256 mm
	FoV phase	100.0 %
	Slice thickness	0.80 mm
	TR	2400.0 ms
	TE 1	1.66 ms
	Averages	1
	Concatenations	1
	Filter	Prescan Normalize
	Coil elements	HEA;HEP
Cont		
	Magn. preparation	Non-sel. IR
	TI	1300 ms
	Flip angle 1	8.0 deg
	Fat suppr.	Water excit. fast
	Water suppr.	None
	Averaging mode	Long term
	Measurements	1
	Reconstruction	Magnitude
	Multiple series	Each measurement
Reso	lution	
	Base resolution	320
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	GRAPPA
	Accel. factor PE	2
	Ref. lines PE	32
	Reference scan mode	Integrated
	Image Filter	Off
	Distortion Corr.	Off
	Accel. factor 3D	1
	Unfiltered images	On
	Prescan Normalize	On
		-
	Normalize	Off
	B1 filter	Off
	Raw filter	Off
	Elliptical filter	Off
	Slice resolution	100 %
	Slice partial Fourier	Off
Geom	etry	
	Nr. of slab groups	1
	Slabs	1
	Dist. factor	50 %
	Position	Isocenter
	Phase enc. dir.	A >> P
	Phase oversampling	0 %
	Slice oversampling	0.0 %
	Slices per slab	208
	Multi-slice mode	Single shot
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Base size phase	256 mm
	Table 2110 Pilabe	

	0.5.6
Base size read	256 mm
Fat suppr.	Water excit. fast
Water suppr.	None
Special sat.	None
Table position	P
System	-
Body	Off
_	
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	FIX
Table position	Н
Table position	O mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Adaptive Combine
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	
	Auto
? Ref. amplitude 1H	0.000 V
! Position	L0.0 P3.0 H6.0 mm
! Rotation	90.00 deg
! A >> P	208 mm
! R >> L	180 mm
! F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
ExcitWEns 0 1H	36.889 V
Gain	Low
Table position	0 mm
Img. Scale. Cor.	5.000
Physio	
Magn. preparation	Non-sel. IR
TI	1300 ms
Inline	
Distortion correction	Off
Sequence	022
Introduction	On
Dimension	3D
Elliptical scanning	Off
Averaging mode	Long term
Multi-slice mode	Single shot
Reordering	Linear
Asymmetric echo	Off
Contrasts	3
Bandwidth 1	740 Hz/Px
Flow comp. 1	No
Echo spacing	8.8 ms
Turbo factor	208
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.

```
RF spoiling
                                              On
     Readout polarity
                                              Positive
     Apply moco to
                                              parent and nav
     Remeasure
                                              60 TRs
     Feedback Delay
                                              108 ms
                                              Use Temp Ref
    Moco Ref. Image
     Add. grad time
                                              0.0~\mathrm{ms}
     Apply freq to
                                              parent and nav
     Averaging
                                              RMS
     TX/RX delta frequency
                                              0 Hz
     TX Nucleus
                                              None
     TX delta frequency
                                              0 Hz
     Coil elements
                                              HEA; HEP
     Acquisition duration
                                              0 ms
     Mode
                                              Off
BOLD
                                              Off
     Subtract
     Save images
                                              On
                                              Off
     Autoscaling
     Scaling factor
                                              1
     Offset
                                              0
     Subtrahend
                                              1
     Subtraction indices
     StdDev
                                              Off
     Std-Dev-Sag
                                              Off
     Std-Dev-Cor
                                              Off
                                              Off
     Std-Dev-Tra
    Std-Dev-Time
                                              Off
    MIP-Sag
                                              Off
    MIP-Cor
                                              Off
    MIP-Tra
                                              Off
                                              Off
    MIP-Time
    Radial MIP
                                              Off
     Save original images
                                              On
    Distortion Corr.
                                              Off
     Contrasts
                                              3
     Save original images
                                              On
    Number of radial views
                                              1
     Axis of radial views
                                              L-R
    MPR Sag
                                              Off
    MPR Cor
                                              Off
    MPR Tra
                                              Off
```

\\USER\Lifespan\LS_Phaselb_14-55yo\SessionB\Localizer TA:9.2 s PAT:Off Voxel size:1.2x1.2x5.0 mm Rel. SNR:1.00 :fl

Properties

Prio Recon On Before measurement After measurement Load to viewer Off Inline movie Off Auto store images On Load to stamp segments On Load images to graphic segments On Auto open inline display Off Wait for user to start On

Start measurements	single
Routine	_
Nr. of slice groups	3
Slices	1
Dist. factor	20 %
Position	L0.0 A45.0 H0.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	40.0 ms
TE	3.00 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA; HEP
Contrast	
MTC	Off
Magn. preparation	None
Flip angle	15 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Measurements	1
Reconstruction	- Magnitude
Multiple series	Off
Resolution	
Base resolution	256
Phase resolution	75 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
	-
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
B1 filter Raw filter	Off Off
B1 filter Raw filter Elliptical filter	Off Off On
B1 filter Raw filter	Off Off
B1 filter Raw filter Elliptical filter Mode Geometry	Off Off On
B1 filter Raw filter Elliptical filter Mode	Off Off On
B1 filter Raw filter Elliptical filter Mode Geometry	Off Off On Inplane
B1 filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups	Off Off On Inplane
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices	Off Off On Inplane
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor	Off Off On Inplane 3 1 20 %
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir.	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Saturation mode	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved Standard
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Saturation mode Nr. of sat. regions	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved Standard 0
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Saturation mode Nr. of sat. regions Position mode	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved Standard 0 L-P-H
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Saturation mode Nr. of sat. regions Position mode Fat suppr.	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved Standard 0 L-P-H None
Bl filter Raw filter Elliptical filter Mode Geometry Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Saturation mode Nr. of sat. regions Position mode	Off Off On Inplane 3 1 20 % L0.0 A45.0 H0.0 mm A >> P 0 % Interleaved Interleaved Standard 0 L-P-H

Special sat.	None
Table position	P
System	
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	Isocenter
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm
Frequency 1H	123.253687 MHz
Correction factor	1
SRFExcit 1H	19.740 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	
1st Signal/Mode	None
Segments	1
Magn. preparation	None
Dark blood	Off
Resp. control	Off
Inline	
Distortion correction	Off
Sequence	_
Introduction	On
Dimension	2D
Phase stabilisation	On
Averaging mode	Short term
Multi-slice mode	Interleaved
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	260 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On
TX/RX delta frequency	0 Hz

```
TX Nucleus
                                              None
     TX delta frequency
                                              0 Hz
     Coil elements
                                              HEA; HEP
     Acquisition duration
                                              0 ms
     Mode
                                              Off
BOLD
                                              Off
     Subtract
     Liver registration
                                              Off
     Save images
                                              On
     Autoscaling
                                              Off
     Scaling factor
                                              1
     Offset
                                              0
     Subtrahend
                                              1
     Subtraction indices
                                              Off
     StdDev
                                              Off
     Std-Dev-Sag
                                              Off
     Std-Dev-Cor
                                              Off
     Std-Dev-Tra
                                              Off
     Std-Dev-Time
                                              Off
    MIP-Sag
    MIP-Cor
                                              Off
    MIP-Tra
                                              Off
    MIP-Time
                                              Off
    Radial MIP
                                              Off
     Save original images
                                              On
    Distortion Corr.
                                              Off
    Contrasts
     Save original images
                                              On
     Wash - In
                                              Off
    Wash - Out
                                              Off
    TTP
                                              Off
    PEI
                                              Off
                                              Off
    MIP - time
    Number of radial views
                                              1
    Axis of radial views
                                             L-R
    MPR Sag
                                              Off
    MPR Cor
                                              Off
    MPR Tra
                                              Off
```

\\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\AAHScout

TA:0:14 PAT:3 Voxel size:1.6x1.6x1.6 mm Rel. SNR:1.00 :fl

```
Properties
    Prio Recon
                                           On
    Before measurement
    After measurement
    Load to viewer
                                           On
    Inline movie
                                           Off
    Auto store images
                                           On
    Load to stamp segments
                                           Off
    Load images to graphic segments
                                         Off
    Auto open inline display
                                           Off
    Wait for user to start
                                           Off
    Start measurements
                                           single
Routine
    Nr. of slab groups
                                           1
    Slabs
                                           1
```

Dist. factor Position Orientation Phase enc. dir. Phase oversampling Slice oversampling FoV read FoV phase Slice thickness TR TE Averages Concatenations Filter Coil elements	20 % L0.0 A45.0 H0.0 mm Sagittal A >> P 0 % 0.0 % 260 mm 100.0 % 1.6 mm 3.15 ms 1.37 ms 1 Prescan Normalize HEA; HEP
AutoAlign	Head
Contrast	
Flip angle	8 deg
Averaging mode	Short term
Measurements	1
Reconstruction	Magnitude
Resolution Base resolution	160
Phase resolution	100 %
Phase partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	24
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Accel. factor 3D	1
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter Raw filter	Off Off
Elliptical filter	Off
Slice resolution	69 %
Slice partial Fourier	6/8
Geometry	3 / 3
Nr. of slab groups	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A45.0 H0.0 mm
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	128
Multi-slice mode	Sequential
Series	Ascending
Nr. of sat. regions Position mode	0 L-P-H
Special sat.	None
Table position	P
System	-
Body	Off
HEP	On
HEA	On
Position mode	L-P-H

	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Save uncombined	Off
	Coil Combine Mode	Adaptive Combine
	Auto Coil Select	Off
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
		0.000 V
	? Ref. amplitude 1H	
	Position	Isocenter
	Rotation	0.00 deg
	R >> L	350 mm
	A >> P	263 mm
	F >> H	350 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	24.593 V
	Gain	Low
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys	io	
Inli	ne	
	Distortion correction	Off
Sequ	ence	
Sequ	ence Introduction	On
Sequ		On 3D
Sequ	Introduction Dimension	3D
Sequ	Introduction Dimension Averaging mode	3D Short term
Sequ	Introduction Dimension Averaging mode Multi-slice mode	3D
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo	3D Short term Sequential
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts	3D Short term Sequential Weak 1
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth	Short term Sequential Weak 1 540 Hz/Px
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type	Short term Sequential Weak 1 540 Hz/Px Fast
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode	Short term Sequential Weak 1 540 Hz/Px Fast Normal
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel.
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None
Sequ	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz
Seque	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA;HEP
Seque	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA;HEP
Seque	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA;HEP 0 ms Off 6.2 s Off On
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor Offset	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off 1
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor Offset Subtrahend	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor Offset Subtrahend Subtraction indices	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off 1 0
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor Offset Subtrachend Subtraction indices StdDev	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off 1 0 1
	Introduction Dimension Averaging mode Multi-slice mode Asymmetric echo Contrasts Bandwidth RF pulse type Gradient mode Excitation RF spoiling TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration Mode Time to center Subtract Save images Autoscaling Scaling factor Offset Subtrahend Subtraction indices	Short term Sequential Weak 1 540 Hz/Px Fast Normal Non-sel. On 0 Hz None 0 Hz HEA; HEP 0 ms Off 6.2 s Off On Off 1 0

```
Std-Dev-Cor
                                         Off
                                         Off
    Std-Dev-Tra
    Std-Dev-Time
                                         Off
                                         Off
    MIP-Sag
                                         Off
    MIP-Cor
                                         Off
    MIP-Tra
                                         Off
    MIP-Time
    Radial MIP
                                         Off
    Save original images
                                         On
    Distortion Corr.
                                         Off
    Contrasts
                                         1
    Save original images
                                         On
    Number of radial views
                                         1
    Axis of radial views
                                         L-R
    MPR Sag
                                         Off
    MPR Cor
                                         Off
    MPR Tra
                                         Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
______
          \USER\Lifespan\LS_Phaselb_14-55yo\SessionB\Localizer_aligned
TA:0:22 PAT:Off Voxel size:1.2x1.2x5.0 mm Rel. SNR:1.00 :fl
Properties
    Prio Recon
                                         On
    Before measurement
    After measurement
    Load to viewer
                                         Off
    Inline movie
                                         Off
    Auto store images
                                         On
    Load to stamp segments
                                         On
    Load images to graphic segments
                                         On
                                         Off
    Auto open inline display
    Wait for user to start
                                         Off
    Start measurements
                                         single
Routine
                                         3
    Nr. of slice groups
    Slices
                                         1
    Dist. factor
                                         20 %
    Position
                                         Isocenter
    Orientation
                                         Transversal
    Phase enc. dir.
                                         A >> P
    AutoAlign
                                         Head > Brain
    Phase oversampling
                                         0 %
    FoV read
                                         300 mm
                                         100.0 %
    FoV phase
                                         5.0 mm
    Slice thickness
    TR
                                         104.0 ms
    TE
                                         3.00 ms
    Averages
                                         1
    Concatenations
    Filter
                                         Prescan Normalize, Elliptical filter
    Coil elements
                                         HEA; HEP
```

Off

None

None None

15 deg

Contrast

MTC

Magn. preparation

Flip angle

Fat suppr.

Water suppr.

	SWI	Off
	Averaging mode	Short term
	Measurements	1
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	
	Base resolution	256
	Phase resolution	75 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Image Filter	Off
	Distortion Corr.	Off
	Unfiltered images	Off
	Prescan Normalize	On
	Normalize	Off
	B1 filter	Off
	Raw filter	Off
	Elliptical filter	On
	Mode	Inplane
Geome	etry	
	Nr. of slice groups	3
	Slices	1
	Dist. factor	20 %
	Position	Isocenter
	Phase enc. dir.	A >> P
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Saturation mode	Standard
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	None
	Water suppr.	None
	Special sat.	None
	Special sat.	None
	Table position	P
Syste		
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Save uncombined	Off
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default
	Shim mode	Tune up
	Adjust with body coil	Off
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V

	- 1.1	_
	Position	Isocenter
	Rotation	0.00 deg
	R >> L	350 mm
	A >> P	263 mm
	F >> H	350 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	19.740 V
	Gain	High
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys	5	
-	1st Signal/Mode	None
	Segments	1
	Magn. preparation	None
	Dark blood	Off
	Resp. control	Off
Inli	<u>-</u>	OII
T11T T1	Distortion correction	Off
Seque		OII
seque	Introduction	On
		-
	Dimension Phase stabilization	2D
	Phase stabilisation	On
	Averaging mode	Short term
	Multi-slice mode	Interleaved
	Asymmetric echo	Allowed
	Contrasts	1
	Bandwidth	260 Hz/Px
	Flow comp.	No
	Allowed delay	0 s
	RF pulse type	Normal
	Gradient mode	Fast
	Excitation	Slice-sel.
	RF spoiling	On
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HEA;HEP
	Acquisition duration	0 ms
	Mode	Off
BOLD		011
	Subtract	Off
	Liver registration	Off
	Save images	On
	Autoscaling	Off
	Scaling factor	1
	Offset	0
	Subtrahend	1
	Subtraction indices	1
	StdDev	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
	Radial MIP	Off
	Save original images	On

```
Distortion Corr.
                                    Off
    Contrasts
                                    1
    Save original images
                                    On
    Wash - In
                                    Off
   Wash - Out
                                    Off
   TTP
                                    Off
                                    Off
   PEI
   MIP - time
                                    Off
   Number of radial views
                                    1
   Axis of radial views
                                    L-R
   MPR Sag
                                    Off
   MPR Cor
                                    Off
   MPR Tra
                                    Off
              SIEMENS MAGNETOM ConnectomS syngo MR D11
______
       \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\BIAS_BC
       TA:0:26 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :tfl
______
Properties
   Prio Recon
                                    Off
   Before measurement
   After measurement
   Load to viewer
                                    On
   Inline movie
                                    Off
   Auto store images
                                    On
   Load to stamp segments
                                    Off
   Load images to graphic segments
                                    Off
   Auto open inline display
                                    Off
   Wait for user to start
                                    Off
    Start measurements
                                    single
```

Routine

Nr. of slab groups 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P AutoAlign Head > Brain Phase oversampling 0 % Slice oversampling 18.2 % FoV read 256 mm FoV phase 100.0 % Slice thickness 2.00 mm TR 250.0 ms TE1.01 ms 1 Averages Concatenations 1 Filter None Coil elements BC

Contrast

Magn. preparation None Flip angle 3 deg Fat suppr. None Water suppr. None Averaging mode Long term Measurements 1 Reconstruction Magnitude

Multiple series Each measurement

Resoluti	on	
	e resolution	128
Pha	se resolution	100 %
Pha	se partial Fourier	6/8
Int	erpolation	Off
PAT	mode	None
Ima	ge Filter	Off
Dis	tortion Corr.	Off
Pre	scan Normalize	Off
Nor	malize	Off
	filter	Off
Raw	filter	Off
Ell	iptical filter	Off
	ce resolution	100 %
Sli	ce partial Fourier	6/8
Geometry		
	of slab groups	1
Sla		1
	t. factor	50 %
	ition	Isocenter
	se enc. dir.	A >> P
	se oversampling	0 %
	ce oversampling	18.2 %
	ces per slab	88
	ti-slice mode	Single shot
Ser		Interleaved
	of sat. regions	0
	ition mode	L-P-H
	suppr.	None
Wat	er suppr.	None
Spe	cial sat.	None
Spe Tab		None P
Spe Tab System	cial sat. le position	P
Spe Tab System Bod	cial sat. le position	P On
Spe Tab System Bod HEP	cial sat. le position Y	P On Off
Spe Tab System Bod HEP HEA	cial sat. le position Y	P On Off Off
Spe Tab System Bod HEP HEA Pos	cial sat. le position Y ition mode	P On Off Off L-P-H
Spe Tab System Bod HEP HEA Pos Pos	cial sat. le position Y ition mode itioning mode	P On Off Off L-P-H FIX
Spe Tab System Bod HEP HEA Pos Pos Tab	cial sat. le position Y ition mode itioning mode le position	P On Off Off L-P-H FIX H
Spe Tab System Bod HEP HEA Pos Pos Tab	cial sat. le position Y ition mode itioning mode le position le position	P On Off Off L-P-H FIX H O mm
Spe Tab System Bod HEP HEA Pos Pos Tab Tab	cial sat. le position Y ition mode itioning mode le position le position A	P On Off Off L-P-H FIX H O mm S - C - T
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag	cial sat. le position y ition mode itioning mode le position le position A ittal	P On Off Off L-P-H FIX H O mm S - C - T R >> L
Spe Tab System Bod' HEP HEA Pos Pos Tab Tab MSM Sag Cor	cial sat. le position y ition mode itioning mode le position le position A ittal onal	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P
Spe Tab System Bod' HEP HEA Pos Tab Tab MSM Sag Cor Tra:	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H
Spe Tab System Bod' HEP HEA Pos Tab Tab MSM Sag Cor Trai Sav	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares
Spe Tab System Bod' HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode	P On Off Off Cff L-P-H FIX H O mm S-C-T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default
Spe Tab System Bod HEP HEA Pos Pos Tab Sag Cor Tra Sav Coi Aut Aut Shi	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode	P On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil	P On Off Off Off L-P-H FIX H O mm S-C-T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up
Spe Tab System Bod: HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj Con	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode	P On Off Off Off L-P-H FIX H O mm S-C-T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off
Spe Tab System Bod: HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj Con Ass	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment	P On Off Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off
Spe Tab System Bod: HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra: Sav Coi Aut Aut Shi: Adj Con Ass: Ass	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone	P On Off Off Off L-P-H FIX H O mm S-C-T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off
Spe Tab System Bod: HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj Con Ass Ass	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone ustment Tolerance	P On Off Off Cff L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj Con Ass Ass Adj ? R	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone	P On Off Off Cff L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off Off Auto
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra: Sav Coi Aut Aut Shi Adj Con Ass Ass Adj ? R Pos	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone ustment Tolerance ef. amplitude 1H	On Off Off Cff L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off Off Auto 0.000 V
Spe Tab System Bod HEP HEA Pos Pos Tab Tab MSM Sag Cor Tra: Sav Coi Aut Aut Shi Adj Con Ass Ass Adj ? R Pos	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone ustment Tolerance ef. amplitude 1H ition ation	On Off Off Cff L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off Off Auto 0.000 V Isocenter
Spe Tab System Bod HEP HEA Pos Pos Tab MSM Sag Cor Tra Sav Coi Aut Aut Shi Adj Con Ass Ass Adj ? R Pos Rot	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone ustment Tolerance ef. amplitude 1H ition ation > L	On Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off Off Auto 0.000 V Isocenter 0.00 deg
Spe Tab System Bod HEP HEA Pos Pos Tab MSM Sag Cor Trai Sav Coi Aut Aut Shi Adj Con Ass Ass Adj ? R Pos Rot R >	cial sat. le position y ition mode itioning mode le position le position A ittal onal nsversal e uncombined l Combine Mode oAlign o Coil Select m mode ust with body coil firm freq. adjustment ume Dominant Fat ume Silicone ustment Tolerance ef. amplitude 1H ition ation > L > P	On Off Off Off L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Off Sum of Squares Head > Brain Default Tune up Off Off Off Off Off Off Auto 0.000 V Isocenter 0.00 deg 350 mm

		100 050605
	Frequency 1H	123.253687 MHz
	Correction factor	1
	SRFExcit 1H	27.667 V
	Gain	Low
	Table position	0 mm
	Img. Scale. Cor.	1.000
Phys	sio	
	1st Signal/Mode	None
	Magn. preparation	None
	Dark blood	Off
	Resp. control	Off
Inli	-	
	Distortion correction	Off
Sear	dence	011
bege	Introduction	On
	Dimension	3D
	Elliptical scanning	Off
	Averaging mode	Long term
	Multi-slice mode	5
		Single shot
	Reordering	Linear
	Asymmetric echo	Allowed
	Bandwidth	540 Hz/Px
	Flow comp.	No
	Echo spacing	3 ms
	Turbo factor	78
	RF pulse type	Fast
	Gradient mode	Fast
	Excitation	Non-sel.
	RF spoiling	On
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	BC
	Acquisition duration	0 ms
	Mode	Off
BOLI		
БОДЬ	Subtract	Off
	Save images	On
	Autoscaling	Off
	Scaling factor	1
	Offset	0
	Subtrahend	1
	Subtraction indices	1
	StdDev	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
	Radial MIP	Off
	Save original images	On
	Distortion Corr.	Off
	Save original images	On
	Number of radial views	1
	Axis of radial views	L-R
	MPR Sag	Off
	MPR Cor	Off

MPR Tra Off

SIEMENS MAGNETOM ConnectomS syngo MR D11

______ \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\BIAS_32CH TA:0:26 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :tfl ______ Properties Prio Recon Off Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start Off Start measurements single Routine Nr. of slab groups 1 Slabs 1 Dist. factor 50 % Position Isocenter Orientation Sagittal Phase enc. dir. A >> P AutoAlign Head > Brain Phase oversampling 0 % Slice oversampling 18.2 % 256 mm FoV read 100.0 % FoV phase Slice thickness 2.00 mm 250.0 ms TR TE1.01 ms Averages 1 Concatenations 1 Filter None Coil elements HEA; HEP Contrast Magn. preparation None Flip angle 3 dea Fat suppr. None Water suppr. None Averaging mode Long term Measurements Magnitude Reconstruction Multiple series Each measurement Resolution Base resolution 128 Phase resolution 100 % Phase partial Fourier 6/8 Interpolation Off PAT mode None Image Filter Off Distortion Corr. Off Prescan Normalize Off Normalize Off B1 filter Off Raw filter Off

Secontry		Elliptical filter Slice resolution Slice partial Fourier	Off 100 % 6/8
Slabs	Geom		
Dist. factor Position Isocenter Phase enc. dir. A >> P Phase oversampling 0 % Slice oversampling 18.2 % Slice sper slab 88 Multi-slice mode Single shot Interleaved Nr. of sat. regions 0 Position mode L-P-H Fat suppr. None Special sat. Table position P System Body Off HEP On Position mode L-P-H Fat suppr. None Special sat. Table position P System Body Off HEP On P P P P P P P P P		Nr. of slab groups	1
Position		Slabs	1
Phase enc. dir. A >> P Phase oversampling 0 % Slice oversampling 18.2 % Slices per slab 88 Multi-slice mode Single shot Series Interleaved Nr. of sat. regions 0 Position mode L-P-H Fat suppr. None Water suppr. None Special sat. None Table position P System Off Body Off HEP On Position mode L-P-H Position mode L-P-H Position mode FIX Table position 0 mm MSMA S - C - T Sagital R > L Coronal A >> P Transversal F > H Say uncombined Off Coil Combine Mode Sum of Squares AutoAlign Head > Brain Auto Coil Select Default Shim mode Tune up Adju		Dist. factor	50 %
Phase oversampling		Position	Isocenter
Slice oversampling		Phase enc. dir.	A >> P
Slice oversampling		Phase oversampling	0 %
Slices per slab 88 Multi-slice mode Single shot Series Interleaved Single shot Series Interleaved Orbition mode L-P-H None Special sat. None Special sat. None Special sat. None Special sat. S			18.2 %
Multi-slice mode Single shot Series Interleaved Nr. of sat. regions 0 Position mode L-P-H Fat suppr. None Special sat. None Table position P System Off Body Off HEP On HEA On Position mode L-P-H Position mode Sur of Squares Auto published Sur of Squares AutoAlign Head > Brain AutoAlign Head > Brain AutoAlign Head > Brain			
Series			
Nr. of sat. regions Position mode			
Position mode			
Fat suppr. None Water suppr. None Special sat. None Table position P			•
Water suppr. None Special sat. None Table position P System Off Body Off HEP On Dosition mode L-P-H Positioning mode FIX Table position 0 mm MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Save uncombined Off Coil Combine Mode Sum of Squares AutoAlign Head > Brain Auto Coil Select Default Shim mode Tune up Adjust with body coil Off Confirm freq. adjustment Off Assume Dominant Fat Off Assume Silicone Off Adjustment Tolerance Auto ? Ref. amplitude 1H 0.000 V Position Isocenter Rotation 0.00 deg R >> L 350 mm F >> H 350 mm			
Special sat. Table position			
Table position P System Body Off HEP On On On HEA On On Position mode L-P-H Positioning mode FIX Table position H Table position H Table position H Table position H Table position Table position H Table position Tune up Tune			
Body			
Body	a .		Р
HEP	Syst		0.5.5
HEA		-	-
Position mode			_
Positioning mode			-
Table position Table position MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Save uncombined Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Rotatio			L-P-H
Table position 0 mm MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Save uncombined Off Coil Combine Mode Sum of Squares AutoAlign Head > Brain Auto Coil Select Default Shim mode Tune up Adjust with body coil Off Confirm freq. adjustment Off Assume Dominant Fat Off Assume Silicone Off Adjustment Tolerance Auto ? Ref. amplitude 1H 0.000 V Position Isocenter Rotation 0.00 deg R >> L 350 mm A >> P 263 mm F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Image: Scale. Cor. 1.000 Physio None Assignal/Mode None Magn		Positioning mode	FIX
MSMA S - C - T Sagittal R >> L Coronal A >> P Transversal F >> H Save uncombined Off Coil Combine Mode Sum of Squares AutoAlign Head > Brain Auto Coil Select Default Shim mode Tune up Adjust with body coil Off Confirm freq. adjustment Off Assume Dominant Fat Off Assume Silicone Off Adjustment Tolerance Auto ? Ref. amplitude 1H 0.000 V Position Isocenter Rotation 0.00 deg R >> L 350 mm A >> P 263 mm F >> H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio 1 Ist Signal/Mode None Magn. preparation None		Table position	H
Sagittal Coronal Coronal A >> P Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation R >> L A >> P Somma A >> P Somma A >> P Somma A >> D Somma A >> D Somma A >> P Somma Book Adjustment Tolerance Auto Correction Corection Corect		Table position	
Coronal Transversal Save uncombined Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Rosenter Rotation Rosent		MSMA	S - C - T
Transversal F >> H Save uncombined Off Coil Combine Mode Sum of Squares AutoAlign Head > Brain Auto Coil Select Default Shim mode Tune up Adjust with body coil Off Confirm freq. adjustment Off Assume Dominant Fat Off Assume Silicone Off Adjustment Tolerance Auto ? Ref. amplitude 1H 0.000 V Position Isocenter Rotation 0.00 deg R >> L 350 mm A >> P 263 mm F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Resp. control Off		Sagittal	R >> L
Save uncombined Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation		Coronal	A >> P
Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation Rotation Rotation Rotation Rosy P F >> H F >> H Frequency 1H Correction factor SRFExcit 1H Gain Table position Iss Signal/Mode Magn. preparation Dark blood Resp. control Sum of Squares Head > Brain Default Pefault Default Tune up Off Off Off Off Oute Tune up Off Off Off Oute Tune up Off Oute Oute Tune up Off Oute Tune up Off Oute Tune up Off Oute Oute Oute Oute Oute Oute Oute Oute		Transversal	F >> H
AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation Rotation A >> P F >> H Frequency 1H Correction factor SRFExcit 1H Gain Table position Img. Scale. Cor. Physio 1 St Signal/Mode Magn. preparation Dark blood Resp. control Default		Save uncombined	Off
AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation Rotation A >> P F >> H Frequency 1H Correction factor SRFExcit 1H Gain Table position Img. Scale. Cor. Physio 1 St Signal/Mode Magn. preparation Dark blood Resp. control Default		Coil Combine Mode	Sum of Squares
Auto Coil Select Shim mode Tune up Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation Rotation A >> P F >> L A >> P Fequency 1H Correction factor SRFExcit 1H Gain Table position Ing. Scale. Cor. Physio Ist Signal/Mode Magn. preparation Dark blood Resp. control Diff Diff Diff Tune up Off Off Adjustment Tune up Off Adjustment Off Assume Joff Auto Off Off Off Off		AutoAlign	
Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Rotati		Auto Coil Select	Default
Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Off Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Rot			Tune up
Confirm freq. adjustment Assume Dominant Fat Off Assume Silicone Off Adjustment Tolerance Ref. amplitude 1H O.000 V Position Rotation O.00 deg R >> L Somm A >> P Somm A >> P Somm F >> H Somm Frequency 1H Correction factor SRFExcit 1H Gain Table position Img. Scale. Cor. Physio 1st Signal/Mode Magn. preparation Dark blood Resp. control Off Off Asuto Off Off Auto Off Auto Occupation Isocenter O.000 V Isocenter O.000 V Isocenter Auto O.000 V Isocenter Auto O.000 V Isocenter Auto O.000 V Isocenter Auto O.000 V Isocenter O.000 V I		Adjust with body coil	-
Assume Dominant Fat Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Rotation Rotation			Off
Assume Silicone Adjustment Tolerance Ref. amplitude 1H Position Rotation Ro		- -	Off
Adjustment Tolerance ? Ref. amplitude 1H Position Rotation Rotation A >> L Somm A >> P Somm F >> H Frequency 1H Correction factor SRFExcit 1H SRFExci			-
? Ref. amplitude 1H 0.000 V Position Isocenter Rotation 0.00 deg R >> L 350 mm A >> P 263 mm F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio None Magn. preparation None Dark blood Off Resp. control Off			
Position Isocenter Rotation 0.00 deg R >> L 350 mm A >> P 263 mm F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio None Magn. preparation None Dark blood Off Resp. control Off			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$			
R >> L 350 mm A >> P 263 mm F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio None Magn. preparation None Dark blood Off Resp. control Off			
A >> P			
F >> H 350 mm Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio None 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			
Frequency 1H 123.253687 MHz Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			
Correction factor 1 SRFExcit 1H 27.667 V Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			
SRFExcit 1H Gain Table position Img. Scale. Cor. Physio 1st Signal/Mode Magn. preparation Dark blood Resp. control 27.667 V Low 1 mm 1 mm No mm None None None Off Off		<u> </u>	
Gain Low Table position 0 mm Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			_
Table position 0 mm Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			
Img. Scale. Cor. 1.000 Physio 1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off			
Physio 1st Signal/Mode Magn. preparation Dark blood Resp. control None Off			
1st Signal/Mode None Magn. preparation None Dark blood Off Resp. control Off	_,	_	1.000
Magn. preparation None Dark blood Off Resp. control Off	Phys		
Dark blood Off Resp. control Off			
Resp. control Off			
<u>-</u>			-
Inline		<u>-</u>	Off
	Inli	ne	

```
Distortion correction
                                           Off
Sequence
    Introduction
                                           On
    Dimension
                                           3D
    Elliptical scanning
                                           Off
    Averaging mode
                                           Long term
    Multi-slice mode
                                           Single shot
    Reordering
                                           Linear
    Asymmetric echo
                                          Allowed
    Bandwidth
                                           540 Hz/Px
    Flow comp.
                                          No
    Echo spacing
                                           3 ms
    Turbo factor
                                           78
    RF pulse type
                                          Fast
    Gradient mode
                                          Fast
    Excitation
                                          Non-sel.
    RF spoiling
                                           On
    TX/RX delta frequency
                                           0 Hz
    TX Nucleus
                                          None
    TX delta frequency
                                           0 Hz
    Coil elements
                                          HEA; HEP
    Acquisition duration
                                           0 ms
    Mode
                                           Off
BOLD
    Subtract
                                           Off
    Save images
                                           On
    Autoscaling
                                           Off
    Scaling factor
                                           1
    Offset
                                           0
    Subtrahend
                                           1
    Subtraction indices
                                           Off
    StdDev
    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
    Radial MIP
                                           Off
    Save original images
                                           On
    Distortion Corr.
                                          Off
    Save original images
                                          On
    Number of radial views
                                          1
    Axis of radial views
                                          L-R
    MPR Sag
                                           Off
    MPR Cor
                                           Off
    MPR Tra
                                           Off
            SIEMENS MAGNETOM ConnectomS syngo MR D11
            ______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\SpinEchoFieldMap_RL
         TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse
Properties
    Prio Recon
                                           Off
    Before measurement
```

After measurement

Rout	Load to viewer Inline movie Auto store images Load to stamp segments Load images to graphic segments Auto open inline display Wait for user to start Start measurements	On Off On Off Off Off Off off on single
Rout		1
	Nr. of slice groups Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Orientation	T > C-20.0
	Phase enc. dir.	R >> L
	AutoAlign	Head > Brain
	Phase oversampling	0 %
	FoV read	208 mm
	FoV phase	86.5 %
	Slice thickness	2.00 mm
	TR	7080 ms
	TE	58.0 ms
	Multi-band accel. factor Filter	1
	Coil elements	None HEA;HEP
Cont	rast	nea/nep
COIIC	MTC	Off
	Magn. preparation	None
	Flip angle	90 deg
	Fat suppr.	Fat sat.
	Grad. rev. fat suppr.	Disabled
	Averaging mode	Long term
	Measurements	3
	Delay in TR	0 ms
	Reconstruction	Magnitude
D	Multiple series	Off
Reso	lution Base resolution	104
	Phase resolution	104 100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom	etry	_
	Nr. of slice groups	1
	Slices Dist. factor	72
	Position	0 %
	Phase enc. dir.	L0.0 P3.0 H6.0 mm R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None

Grad rev	. fat suppr.	Disabled
Special s		None
Table pos		P
System	101011	Ē
Body		Off
-		-
HEP		On
HEA	1	On
Position		L-P-H
Positioni		REF
Table pos		H
Table pos	ition	0 mm
MSMA		S - C - T
Sagittal		R >> L
Coronal		A >> P
Transvers	al	F >> H
Coil Comb	ine Mode	Sum of Squares
AutoAlign		Head > Brain
Auto Coil		Default
Shim mode		Standard
Adiust wi	th body coil	Off
	req. adjustment	Off
	minant Fat	Off
Assume Si		Off
	t Tolerance	Auto
	plitude 1H	0.000 V
Position	pricade in	LO.0 P3.0 H6.0 mm
Rotation		
		90.00 deg
A >> P		208 mm
R >> L		180 mm
F >> H	1	144 mm
Frequency		123.253687 MHz
Correction		1
AddCSaCSa	tns 1h	40.921 V
Gain		High
Table pos	ition	0 mm
Img. Scal	e. Cor.	1.000
Physio		
1st Signa	l/Mode	None
Magn. pre	paration	None
Inline		
Distortion	n correction	Off
Sequence		
Introduct	ion	Off
Averaging	mode	Long term
Multi-sli		Interleaved
Bandwidth		2290 Hz/Px
Echo spac	ina	0.58 ms
EPI facto:		90
RF pulse		Normal
Gradient		Fast
Triggerin		Standard
	ta frequency	0 Hz
TX Nucleus		
		None
TX delta		0 Hz
Coil elem		HEA; HEP
-	on duration	0 ms
BOLD		0.5.5
GLM Stati		Off
Dynamic t		Off
Starting	ignore meas	0

```
Ignore after transition
                                         0
Model transition states
                                         Off
Temp. highpass filter
                                         Off
Threshold
                                         4.00
Paradigm size
                                         3
                                         Off
Motion correction
Spatial filter
                                         Off
Delay in TR
                                         0 ms
Distortion Corr.
                                         Off
```

\\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\SpinEchoFieldMap_LR TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse

______ Properties Prio Recon Off Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start Off Start measurements single Routine Nr. of slice groups 1 Slices 72 Dist. factor 0 왕 L0.0 P3.0 H6.0 mm Position T > C-20.0Orientation Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm 7080 ms 58.0 ms Multi-band accel. factor 1 Filter None Coil elements HEA; HEP Contrast Off MTC Magn. preparation None Flip angle 90 deg Fat suppr. Fat sat. Grad. rev. fat suppr. Disabled Averaging mode Long term Measurements 3 Delay in TR 0 ms Reconstruction Magnitude Multiple series Off Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off

Interpolation PAT mode Distortion Corr. Hamming Prescan Normalize Raw filter Elliptical filter	Off None Off Off Off Off Off
Nr. of slice groups Slices Dist. factor Position Phase enc. dir. Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Grad. rev. fat suppr. Special sat. Table position System	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None Disabled None P
Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H Frequency 1H Correction factor AddCSaCSatNS 1H Gain Table position Img. Scale. Cor. Physio 1st Signal/Mode Magn. preparation	Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm 180 mm 144 mm 123.253687 MHz 1 40.921 V High O mm 1.000 None None
Inline	

```
Distortion correction
                                           Off
Sequence
    Introduction
                                           Off
    Averaging mode
                                           Long term
    Multi-slice mode
                                           Interleaved
    Bandwidth
                                           2290 Hz/Px
    Echo spacing
                                           0.58 \, \mathrm{ms}
    EPI factor
                                           90
    RF pulse type
                                           Normal
    Gradient mode
                                           Fast
    Triggering scheme
                                           Standard
    TX/RX delta frequency
                                           0 Hz
    TX Nucleus
                                           None
    TX delta frequency
                                           0 Hz
    Coil elements
                                           HEA; HEP
    Acquisition duration
                                           0 ms
BOLD
    GLM Statistics
                                           Off
    Dynamic t-maps
                                           Off
    Starting ignore meas
                                           Ω
    Ignore after transition
                                           0
    Model transition states
                                           Off
    Temp. highpass filter
                                           Off
    Threshold
                                           4.00
    Paradigm size
    Motion correction
                                           Off
    Spatial filter
                                           Off
    Delay in TR
                                           0 ms
    Distortion Corr.
                                           Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
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         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\rfMRI_REST_LR
        TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
    Prio Recon
                                           Off
    Before measurement
    After measurement
    Load to viewer
                                           On
    Inline movie
                                           Off
    Auto store images
                                           On
    Load to stamp segments
                                           Off
    Load images to graphic segments
                                           Off
    Auto open inline display
                                           Off
    Wait for user to start
                                           On
    Start measurements
                                           single
Routine
    Nr. of slice groups
                                           72
    Slices
    Dist. factor
                                           0 %
                                           L0.0 P3.0 H6.0 mm
    Position
    Orientation
                                           T > C-20.0
    Phase enc. dir.
                                           R >> L
                                           Head > Brain
    AutoAlign
    Phase oversampling
                                           0 왕
    FoV read
                                           208 mm
    FoV phase
                                           86.5 %
    Slice thickness
                                           2.00 mm
```

	TR	720 ms
	TE	33.20 ms
	Multi-band accel. factor	8
	Filter	None
	Coil elements	HEA;HEP
Cont	rast	- 5 5
	MTC	Off
	Magn. preparation	None
	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	420
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	
	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom	etry	_
	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Special sat.	None
	_ 1 2	
	Table position	P
Syst	em	P
Syst	em Body	P Off
Syst	em Body HEP	P Off On
Syst	em Body HEP HEA	P Off On On
Syst	em Body HEP HEA Position mode	P Off On On L-P-H
Syst	em Body HEP HEA Position mode Positioning mode	P Off On On L-P-H REF
Syst	em Body HEP HEA Position mode Positioning mode Table position	P Off On On L-P-H REF H
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position	P Off On On L-P-H REF H O mm
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA	P Off On On L-P-H REF H O mm S - C - T
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal	P Off On On L-P-H REF H O mm S - C - T R >> L
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off
Syst	em Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode	P Off On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard

```
Assume Silicone
                                        Off
    Adjustment Tolerance
                                        Auto
                                        0.000 V
    ? Ref. amplitude 1H
    Position
                                        L0.0 P3.0 H6.0 mm
                                        90.00 deg
    Rotation
                                        208 mm
    A >> P
                                        180 mm
    R >> L
    F >> H
                                        144 mm
                                        123.253687 MHz
    Frequency 1H
    Correction factor
    MBExc 1H
                                        280.027 V
    Gain
                                        High
    Table position
                                        0 mm
    Img. Scale. Cor.
                                        1.000
Physio
    1st Signal/Mode
                                        None
                                        None
    Magn. preparation
                                        Off
    Distortion correction
Sequence
                                        Off
    Introduction
    Averaging mode
                                        Long term
    Multi-slice mode
                                        Interleaved
    Bandwidth
                                        2290 Hz/Px
    Echo spacing
                                        0.58 ms
    EPI factor
                                        90
    Gradient mode
                                        Fast
    Online multi-band recon.
                                        Remote
    Triggering scheme
                                        Standard
    TX/RX delta frequency
                                        0 Hz
    TX Nucleus
                                        None
    TX delta frequency
                                        0 Hz
    Coil elements
                                        HEA; HEP
    Acquisition duration
                                        0 ms
BOLD
                                        Off
    GLM Statistics
    Dynamic t-maps
                                        Off
    Starting ignore meas
                                        0
    Ignore after transition
                                        0
    Model transition states
                                        On
    Temp. highpass filter
                                        On
    Threshold
                                        4.00
    Paradigm size
                                        3
    Motion correction
                                        Off
    Spatial filter
                                        Off
    Delay in TR
                                        0 ms
    Distortion Corr.
                                        Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\rfMRI_REST_RL
        TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
______
Properties
                                        Off
    Prio Recon
    Before measurement
    After measurement
    Load to viewer
                                        On
    Inline movie
                                        Off
```

Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start On Start measurements single	
Routine	
Nr. of slice groups 1 Slices 72 Dist. factor 0 % Position L0.0 P3.0 H6.0 Orientation T > C-20.0 Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm TR 720 ms TE 33.20 ms Multi-band accel. factor 8	mm
Filter None	
Coil elements HEA;HEP Contrast	
MTC Off	
Magn. preparation None Flip angle 52 deg	
Fat suppr. Fat sat.	
Averaging mode Long term	
Measurements 420	
Delay in TR 0 ms	
Reconstruction Magnitude	
Multiple series Off	
Resolution Base resolution 104	
Phase resolution 100 %	
Phase partial Fourier Off	
Interpolation Off	
PAT mode None	
Distortion Corr. Off	
Hamming Off Prescan Normalize Off	
Prescan Normalize Off Raw filter Off	
Elliptical filter Off	
Geometry	
Nr. of slice groups 1	
Slices 72 Dist. factor 0 %	
Dist. factor 0 % Position L0.0 P3.0 H6.0	mm
Phase enc. dir. R >> L	111111
Phase oversampling 0 %	
Multi-slice mode Interleaved	
Series Interleaved	
Nr. of sat. regions 0	
Position mode L-P-H Fat suppr. Fat sat.	
Special sat. None	
Special sat. None	
Table position P	
System	

Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
·-	
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	208 mm
R >> L	180 mm
F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
MBExc 1H	280.027 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	1.000
	Mone
1st Signal/Mode	None
1st Signal/Mode Magn. preparation	None None
1st Signal/Mode Magn. preparation Inline	None
1st Signal/Mode Magn. preparation Inline Distortion correction	
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence	None Off
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction	None Off Off
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode	None Off
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction	None Off Off
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode	None Off Long term
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth	None Off Off Long term Interleaved
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode	None Off Off Long term Interleaved 2290 Hz/Px
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon.	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms
1st Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms
Ist Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms Off
Ist Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms Off
Ist Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms Off Off
Ist Signal/Mode Magn. preparation Inline Distortion correction Sequence Introduction Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition	None Off Off Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None 0 Hz HEA;HEP 0 ms Off Off Off Of

Paradigm size 3
Motion correction Off
Spatial filter Off
Delay in TR 0 ms
Distortion Corr. Off

SIEMENS MAGNETOM ConnectomS syngo MR D11

\\USER\Lifespan\LS_Phase1b_14-	55yo\SessionB\DWI_dir79_RL
TA:5:11 PAT:Off Voxel size:1.5x1	.5x1.5 mm Rel. SNR:1.00 :epse
Dwaretica	
Properties Prio Recon	Off
Before measurement	OLL
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images Load to stamp segments	On Off
Load images to graphic segments	Off
Auto open inline display	Off
Wait for user to start	On
Start measurements	single
Routine	Singic
Nr. of slice groups	1
Slices	93
Dist. factor	0 %
Position	LO.O P3.O H6.O mm
Orientation	T > C-20.0
Phase enc. dir.	R >> L
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	210 mm
FoV phase	85.7 %
Slice thickness	1.50 mm
TR	3730 ms
TE	76.60 ms
Multi-band accel. factor	3
Filter	None
Coil elements	HEA; HEP
Contrast	
MTC	Off
Magn. preparation	None
Flip angle	78 deg
Fat suppr.	None
Grad. rev. fat suppr.	Enabled
Averaging mode	Long term
Measurements	1
Delay in TR	0 ms
Reconstruction	Magnitude
Multiple series	Off
Resolution Base resolution	140
Phase resolution	140
	100 %
Phase partial Fourier	6/8 Off
Interpolation PAT mode	
Distortion Corr.	None Off
Prescan Normalize	Off
FIESCAII NOTHAIIZE	OLL

Raw filter Elliptical filter Dynamic Field Corr.	Off Off Off
Geometry	
Nr. of slice groups	1
Slices	93
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Grad. rev. fat suppr.	Enabled
Special sat.	None
Table position	P
System	
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	FIX
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	210 mm
R >> L	180 mm
F >> H	140 mm
Frequency 1H	123.253687 MHz
Correction factor ExtExciteRF 1H	1 85.623 V
Gain	High
Table position Img. Scale. Cor.	0 mm 1.000
Physio	1.000
1st Signal/Mode	None
Magn. preparation	None
Resp. control	Off
Inline	OLL
Distortion correction	Off
Sequence	-
Introduction	On
	- -

```
Averaging mode
                                            Long term
    Multi-slice mode
                                            Interleaved
    Bandwidth
                                            1700 Hz/Px
    Echo spacing
                                            0.69 \, \mathrm{ms}
    EPI factor
                                            120
    Gradient mode
                                            Fast
    Online multi-band recon.
                                           Remote
    TX/RX delta frequency
                                            0 Hz
    TX Nucleus
                                            None
    TX delta frequency
                                            0 Hz
    Coil elements
                                            HEA; HEP
    Acquisition duration
BOLD
    Delay in TR
                                            0 ms
    Diffusion mode
                                            Free
    Diff. weightings
                                            3000 \text{ s/mm}\hat{A}^2
    b-value
    Diff. weighted images
                                            On
                                            Off
    Trace weighted images
                                            Off
    ADC maps
    FA maps
                                            Off
    Mosaic
                                            On
    Tensor
                                            Off
    Distortion Corr.
                                            Off
    b-Value >=
                                            0 \text{ s/mm}\hat{A}^2
    Exponential ADC Maps
                                            Off
    Invert Gray Scale
                                            Off
    Calculated Image
                                            Off
    Calculated bValue
                                            1400 \text{ s/mm}\hat{A}^2
                 SIEMENS MAGNETOM ConnectomS syngo MR D11
______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\DWI_dir79_LR
        TA:5:11 PAT:Off Voxel size:1.5x1.5x1.5 mm Rel. SNR:1.00 :epse
Properties
    Prio Recon
                                            Off
    Before measurement
    After measurement
    Load to viewer
                                            On
    Inline movie
                                            Off
    Auto store images
                                            On
    Load to stamp segments
                                            Off
    Load images to graphic segments
                                            Off
    Auto open inline display
                                            Off
    Wait for user to start
                                            On
    Start measurements
                                            single
Routine
    Nr. of slice groups
                                            93
    Slices
    Dist. factor
                                            0 %
                                            L0.0 P3.0 H6.0 mm
    Position
    Orientation
                                            T > C-20.0
    Phase enc. dir.
                                            R >> L
                                            Head > Brain
    AutoAlign
                                            0 왕
    Phase oversampling
    FoV read
                                            210 mm
    FoV phase
                                            85.7 %
    Slice thickness
                                            1.50 mm
```

	TR	3730 ms
	TE	76.60 ms
	Multi-band accel. factor	3
	Filter	None
Cont	Coil elements	HEA;HEP
COIIC	rast MTC	Off
	Magn. preparation	None
	Flip angle	78 deg
	Fat suppr.	None
	Grad. rev. fat suppr.	Enabled
	Averaging mode	Long term
	Measurements	1
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	
	Base resolution	140
	Phase resolution	100 %
	Phase partial Fourier	6/8
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Q	Dynamic Field Corr.	Off
Geom	etry	1
	Nr. of slice groups Slices	93
	Dist. factor	0 %
	Position	LO.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	None
	Special sat.	None
	Grad. rev. fat suppr.	Enabled
	Special sat.	None
_	Table position	P
Syst		0.5.5
	Body	Off
	HEP	On
	HEA Position mode	On L-P-H
	Positioning mode	FIX
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Coronal Transversal	A >> P F >> H
	Transversal	F >> H
	Transversal Coil Combine Mode AutoAlign Auto Coil Select	F >> H Sum of Squares
	Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode	F >> H Sum of Squares Head > Brain Default Standard
	Transversal Coil Combine Mode AutoAlign Auto Coil Select	F >> H Sum of Squares Head > Brain Default

```
Confirm freq. adjustment
                                               Off
     Assume Dominant Fat
                                               Off
     Assume Silicone
                                               Off
     Adjustment Tolerance
                                               Auto
                                               0.000 V
     ? Ref. amplitude 1H
                                               L0.0 P3.0 H6.0 mm
     Position
                                               90.00 deg
     Rotation
     A >> P
                                               210 mm
     R >> L
                                               180 mm
     F >> H
                                               140 mm
     Frequency 1H
                                               123.253687 MHz
     Correction factor
                                               85.623 V
     ExtExciteRF 1H
     Gain
                                               High
     Table position
                                               0 mm
                                               1.000
     Img. Scale. Cor.
Physio
     1st Signal/Mode
                                               None
                                               None
     Magn. preparation
     Resp. control
                                               Off
Inline
     Distortion correction
                                               Off
Sequence
     Introduction
                                               On
     Averaging mode
                                               Long term
     Multi-slice mode
                                               Interleaved
     Bandwidth
                                               1700 Hz/Px
     Echo spacing
                                               0.69 \, \mathrm{ms}
     EPI factor
                                               120
     Gradient mode
                                               Fast
     Online multi-band recon.
                                               Remote
     TX/RX delta frequency
                                               0 Hz
     TX Nucleus
                                               None
     TX delta frequency
                                               0 Hz
     Coil elements
                                               HEA; HEP
     Acquisition duration
                                               0 ms
BOLD
     Delay in TR
                                               0 ms
     Diffusion mode
                                               Free
     Diff. weightings
     b-value
                                               3000 \text{ s/mm}\hat{A}^2
     Diff. weighted images
                                               On
     Trace weighted images
                                               Off
     ADC maps
                                               Off
     FA maps
                                               Off
     Mosaic
                                               On
     Tensor
                                               Off
     Distortion Corr.
                                               Off
                                               0 s/mm²
     b-Value >=
     Exponential ADC Maps
                                               Off
     Invert Gray Scale
                                               Off
     Calculated Image
                                               Off
     Calculated bValue
                                               1400 \text{ s/mm}\hat{A}^2
```

\\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\DWI_dir84_RL
TA:5:30 PAT:Off Voxel size:1.5x1.5x1.5 mm Rel. SNR:1.00 :epse

Prop	perties	
	Prio Recon	Off
	Before measurement	
	After measurement	
	Load to viewer	On
	Inline movie	Off
	Auto store images	On Off
	Load to stamp segments Load images to graphic segments	Off
	Auto open inline display	Off
	Wait for user to start	On
	Start measurements	single
Rout	ine	_
	Nr. of slice groups	1
	Slices	93
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Orientation Phase enc. dir.	T > C-20.0 R >> L
	AutoAlign	Head > Brain
	Phase oversampling	0 %
	FoV read	210 mm
	FoV phase	85.7 %
	Slice thickness	1.50 mm
	TR	3730 ms
	TE	76.60 ms
	Multi-band accel. factor	3
	Filter	None
0	Coil elements	HEA;HEP
Cont	rast MTC	Off
	Magn. preparation	None
	Flip angle	78 deg
	Fat suppr.	None
	Grad. rev. fat suppr.	Enabled
	Averaging mode	Long term
	Measurements	1
	Delay in TR	0 ms
	Reconstruction	Magnitude
D	Multiple series	Off
Resc	olution Base resolution	140
	Phase resolution	100 %
	Phase partial Fourier	6/8
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
G	Dynamic Field Corr.	Off
Geom	netry	1
	Nr. of slice groups Slices	1 93
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved

No. of set monious	0
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	None
Special sat.	None
Grad. rev. fat suppr.	Enabled
Special sat.	None
Table position	P
System	
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
	FIX
Positioning mode	
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	210 mm
R >> L	180 mm
F >> H	140 mm
Frequency 1H	123.253687 MHz
Correction factor	1
ExtExciteRF 1H	85.623 V
Gain	High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	
1st Signal/Mode	None
Magn. preparation	None
Resp. control	Off
Inline	
Distortion correction	Off
Sequence	
Introduction	On
Averaging mode	Long term
Multi-slice mode	2
	Interleaved
Bandwidth	1700 Hz/Px
Echo spacing	0.69 ms
EPI factor	120
Gradient mode	Fast
Online multi-band recon.	Remote
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	HEA; HEP
Acquisition duration	0 ms

```
Delay in TR
                                          0 ms
    Diffusion mode
                                          Free
    Diff. weightings
                                          1
                                          3000 \text{ s/mm}\hat{A}^2
    b-value
    Diff. weighted images
                                          On
    Trace weighted images
                                          Off
    ADC maps
                                          Off
    FA maps
                                          Off
    Mosaic
                                          On
    Tensor
                                          Off
    Distortion Corr.
                                          Off
                                          0 \text{ s/mm}\hat{A}^2
    b-Value >=
    Exponential ADC Maps
                                          Off
    Invert Gray Scale
                                          Off
    Calculated Image
                                          Off
    Calculated bValue
                                          1400 \text{ s/mm}\hat{A}^2
                 SIEMENS MAGNETOM ConnectomS syngo MR D11
______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\DWI_dir84_LR
        TA:5:30 PAT:Off Voxel size:1.5x1.5x1.5 mm Rel. SNR:1.00 :epse
______
Properties
    Prio Recon
                                          Off
    Before measurement
    After measurement
    Load to viewer
                                          On
    Inline movie
                                          Off
    Auto store images
                                          On
    Load to stamp segments
                                          Off
    Load images to graphic segments
                                          Off
    Auto open inline display
                                          Off
    Wait for user to start
                                          On
    Start measurements
                                          single
Routine
    Nr. of slice groups
                                          1
    Slices
                                          93
    Dist. factor
                                          0 %
    Position
                                         L0.0 P3.0 H6.0 mm
                                         T > C-20.0
    Orientation
    Phase enc. dir.
                                         R >> L
    AutoAlign
                                         Head > Brain
    Phase oversampling
                                          0 %
    FoV read
                                          210 mm
                                          85.7 %
    FoV phase
    Slice thickness
                                          1.50 mm
    קיד
                                          3730 ms
                                          76.60 ms
    Multi-band accel. factor
                                          3
    Filter
                                          None
    Coil elements
                                          HEA; HEP
Contrast
    MTC
                                          Off
    Magn. preparation
                                          None
    Flip angle
                                          78 deg
    Fat suppr.
                                          None
    Grad. rev. fat suppr.
                                          Enabled
    Averaging mode
                                          Long term
```

BOLD

	Measurements	1
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Resc	lution	1.40
	Base resolution	140
	Phase resolution	100 %
	Phase partial Fourier	6/8 Off
	Interpolation PAT mode	None
	Distortion Corr.	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
	Dynamic Field Corr.	Off
Geom	etry	011
	Nr. of slice groups	1
	Slices	93
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	None
	Special sat.	None
	Grad. rev. fat suppr.	Enabled
	Special sat.	None
Crrat	Table position	P
Syst	em	
Syst	em Body	Off
Syst	em Body HEP	Off On
Syst	em Body HEP HEA	Off On On
Syst	em Body HEP HEA Position mode	Off On
Syst	em Body HEP HEA Position mode Positioning mode	Off On On L-P-H
Syst	em Body HEP HEA Position mode Positioning mode Table position	Off On On L-P-H FIX
Syst	em Body HEP HEA Position mode Positioning mode	Off On On L-P-H FIX H
Syst	Body HEP HEA Position mode Positioning mode Table position Table position	Off On On L-P-H FIX H O mm
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA	Off On On L-P-H FIX H O mm S - C - T
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Off Off Of
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Off Off Of
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Off Off Of
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Off Off Of
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Off Off Of
Syst	Body HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H	Off On On L-P-H FIX H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 210 mm 180 mm 140 mm

```
ExtExciteRF 1H
                                         85.623 V
    Gain
                                         High
    Table position
                                         0 mm
                                         1.000
    Img. Scale. Cor.
Physio
    1st Signal/Mode
                                         None
    Magn. preparation
                                         None
    Resp. control
                                         Off
Inline
                                         Off
    Distortion correction
Sequence
    Introduction
                                         On
                                         Long term
    Averaging mode
    Multi-slice mode
                                         Interleaved
    Bandwidth
                                         1700 Hz/Px
    Echo spacing
                                         0.69 ms
    EPI factor
                                         120
    Gradient mode
                                        Fast
    Online multi-band recon.
                                        Remote
    TX/RX delta frequency
                                         0 Hz
    TX Nucleus
                                        None
    TX delta frequency
                                         0 Hz
    Coil elements
                                         HEA; HEP
    Acquisition duration
                                         0 ms
BOLD
    Delay in TR
                                         0 ms
    Diffusion mode
                                         Free
    Diff. weightings
    b-value
                                         3000 \text{ s/mm}\hat{A}^2
    Diff. weighted images
                                         On
    Trace weighted images
                                         Off
    ADC maps
                                         Off
    FA maps
                                         Off
    Mosaic
                                         On
    Tensor
                                         Off
    Distortion Corr.
                                         Off
    b-Value >=
                                         0 \text{ s/mm}\hat{A}^2
    Exponential ADC Maps
                                         Off
    Invert Gray Scale
                                         Off
    Calculated Image
                                         Off
    Calculated bValue
                                         1400 s/mm²
           SIEMENS MAGNETOM ConnectomS syngo MR D11
______
        \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\SpinEchoFieldMap_RL
        TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse
______
Properties
                                         Off
    Prio Recon
    Before measurement
    After measurement
    Load to viewer
                                         On
    Inline movie
                                         Off
    Auto store images
                                         On
    Load to stamp segments
                                        Off
    Load images to graphic segments
                                        Off
    Auto open inline display
                                        Off
    Wait for user to start
                                         On
```

single

Start measurements

Routine	
Nr. of slice groups	1
Slices	72
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Orientation	T > C-20.0
Phase enc. dir.	R >> L
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	208 mm
FoV phase	86.5 %
Slice thickness	2.00 mm
TR	7080 ms
TE Multi-band accel. factor	58.0 ms 1
Filter	None
Coil elements	HEA; HEP
Contrast	HEA/HEP
MTC	Off
Magn. preparation	None
Flip angle	90 deg
Fat suppr.	Fat sat.
Grad. rev. fat suppr.	Disabled
Averaging mode	Long term
Measurements	3
Delay in TR	0 ms
Reconstruction	Magnitude
Multiple series	Off
Resolution	
Base resolution	104
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	None Off
Distortion Corr. Hamming	Off
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Geometry	011
Nr. of slice groups	1
Slices	
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Grad. rev. fat suppr.	Disabled
Special sat.	None
Table position	P
System Body	Off
HEP	On
HEA	On
Position mode	L-P-H

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	LO.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	
	208 mm
R >> L	180 mm
F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	1
AddCSaCSatNS 1H	40.921 V
Gain	High
Table position	O mm
Img. Scale. Cor.	1.000
Physio	1.000
1st Signal/Mode	None
	None
Magn. preparation Inline	None
	0.5.5
Distortion correction	Off
Sequence	
Introduction	Off
Averaging mode	Long term
Multi-slice mode	Interleaved
Bandwidth	2290 Hz/Px
Echo spacing	0.58 ms
EPI factor	90
RF pulse type	Normal
Gradient mode	Fast
Triggering scheme	Standard
	D CALLACT A
TY/PY delta frequency	О на
TX/RX delta frequency	0 Hz None
TX Nucleus	None
TX Nucleus TX delta frequency	None 0 Hz
TX Nucleus TX delta frequency Coil elements	None 0 Hz HEA;HEP
TX Nucleus TX delta frequency Coil elements Acquisition duration	None 0 Hz
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD	None 0 Hz HEA;HEP 0 ms
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics	None 0 Hz HEA;HEP 0 ms
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD	None 0 Hz HEA;HEP 0 ms
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics	None 0 Hz HEA;HEP 0 ms
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps	None 0 Hz HEA; HEP 0 ms Off
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas	None 0 Hz HEA;HEP 0 ms Off Off 0f 0
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states	None 0 Hz HEA;HEP 0 ms Off Off Off 0 0
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter	None 0 Hz HEA;HEP 0 ms Off Off Off 0 0 Off
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold	None 0 Hz HEA; HEP 0 ms Off Off Off 0 0 0 0ff Off 4.00
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size	None 0 Hz HEA; HEP 0 ms Off Off Off 0 0 0 Off Off 4.00 3
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Motion correction	None 0 Hz HEA; HEP 0 ms Off Off Off 0 0 0 Off Off 4.00 3 Off
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Motion correction Spatial filter	None 0 Hz HEA; HEP 0 ms Off Off Off 0 0 0 Off Off 4.00 3 Off Off
TX Nucleus TX delta frequency Coil elements Acquisition duration BOLD GLM Statistics Dynamic t-maps Starting ignore meas Ignore after transition Model transition states Temp. highpass filter Threshold Paradigm size Motion correction	None 0 Hz HEA; HEP 0 ms Off Off Off 0 0 0 Off Off 4.00 3 Off

Off

______ \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\SpinEchoFieldMap_LR TA:0:28 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epse ______ Properties Prio Recon Off Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start Off Start measurements single Routine Nr. of slice groups Slices 72 Dist. factor 0 % Position L0.0 P3.0 H6.0 mm Orientation T > C-20.0Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm FoV phase 86.5 % Slice thickness 2.00 mm TR 7080 ms 58.0 ms TEMulti-band accel. factor 1 Filter None Coil elements HEA; HEP Contrast MTC Off Magn. preparation None Flip angle 90 deg Fat suppr. Fat sat. Grad. rev. fat suppr. Disabled Averaging mode Long term Measurements 3 Delay in TR 0 ms Reconstruction Magnitude Multiple series Off Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Distortion Corr. Off Off Hamming Prescan Normalize Off Raw filter Off Elliptical filter Off Geometry

Slices Dist. factorists Position Phase ence Phase over Multi-slice Series Nr. of sactorist Position of Fat suppr Special sactorist Grad. rev Special sactorist Table position	. dir. rsampling ce mode t. regions mode . at fat suppr. at.	1 72 0 % L0.0 P3.0 H6.0 mm R >> L 0 % Interleaved Interleaved 0 L-P-H Fat sat. None Disabled None P
System		055
Body		Off
HEP HEA		On On
Position 1	abom	L-P-H
Positioni		REF
Table pos	2	H
Table pos		0 mm
MSMA	101011	S - C - T
Sagittal		R >> L
Coronal		A >> P
Transvers	al	F >> H
Coil Comb		Sum of Squares
AutoAlign		Head > Brain
Auto Coil		Default
Shim mode	201000	Standard
	th body coil	Off
	req. adjustment	Off
	minant Fat	Off
Assume Si	licone	Off
	t Tolerance	Auto
	plitude 1H	0.000 V
Position	-	L0.0 P3.0 H6.0 mm
Rotation		90.00 deg
A >> P		208 mm
R >> L		180 mm
F >> H		144 mm
Frequency	1H	123.253687 MHz
Correction	n factor	1
AddCSaCSa	tns 1h	40.921 V
Gain		High
Table pos	ition	0 mm
Img. Scale	e. Cor.	1.000
Physio		
1st Signa	l/Mode	None
Magn. pre	paration	None
Inline		
Distortion	n correction	Off
Sequence		
Introduct	ion	Off
Averaging	mode	Long term
Multi-sli		Interleaved
Bandwidth		2290 Hz/Px
Echo spac	ing	0.58 ms
EPI facto:		90

```
RF pulse type
                                             Normal
     Gradient mode
                                             Fast
    Triggering scheme
                                             Standard
     TX/RX delta frequency
                                             0 Hz
    TX Nucleus
                                            None
    TX delta frequency
                                            0 Hz
    Coil elements
                                            HEA; HEP
    Acquisition duration
                                             0 ms
BOLD
    GLM Statistics
                                             Off
    Dynamic t-maps
                                             Off
     Starting ignore meas
                                             0
                                             0
     Ignore after transition
    Model transition states
                                            Off
    Temp. highpass filter
                                             Off
    Threshold
                                             4.00
     Paradigm size
                                             3
    Motion correction
                                             Off
     Spatial filter
                                             Off
     Delay in TR
                                             0 ms
    Distortion Corr.
                                             Off
                  SIEMENS MAGNETOM ConnectomS syngo MR D11
         \USER\Lifespan\LS_Phase1b_14-55yo\SessionB\rfMRI_REST_LR
         TA:5:12 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
    Prio Recon
                                             Off
     Before measurement
    After measurement
    Load to viewer
                                             On
    Inline movie
                                             Off
    Auto store images
                                             On
    Load to stamp segments
                                             Off
    Load images to graphic segments
                                            Off
    Auto open inline display
                                             Off
     Wait for user to start
                                             On
     Start measurements
                                             single
Routine
    Nr. of slice groups
     Slices
                                             72
    Dist. factor
                                             0 %
    Position
                                            L0.0 P3.0 H6.0 mm
    Orientation
                                            T > C-20.0
                                            R >> L
     Phase enc. dir.
                                            Head > Brain
    AutoAlign
                                             0 %
    Phase oversampling
    FoV read
                                             208 mm
    FoV phase
                                             86.5 %
     Slice thickness
                                             2.00 mm
     TR
                                             720 ms
                                             33.20 ms
    Multi-band accel. factor
    Filter
                                             None
```

HEA; HEP

Off

None

Coil elements

Magn. preparation

Contrast

MTC

	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	420
	Delay in TR	0 ms
	Reconstruction	Magnitude
	Multiple series	Off
Reso	lution	
	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Coom	etry	OII
Geom	Nr. of slice groups	1
		72
	Slices	
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Special sat.	None
_	Table position	P
Syst	_	
	Dodre	
	Body	Off
	HEP	On
	HEP HEA	On On
	HEP HEA Position mode	On On L-P-H
	HEP HEA Position mode Positioning mode	On On
	HEP HEA Position mode Positioning mode Table position	On On L-P-H REF H
	HEP HEA Position mode Positioning mode	On On L-P-H REF
	HEP HEA Position mode Positioning mode Table position Table position MSMA	On On L-P-H REF H O mm S - C - T
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal	On On L-P-H REF H O mm S - C - T R >> L
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal	On On L-P-H REF H O mm S - C - T R >> L A >> P
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode	On On L-P-H REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign	On On L-P-H REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select	On On L-P-H REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode	On On L-P-H REF H 0 mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Auto 0.000 V
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg
	HEP HEA Position mode Positioning mode Table position Table position MSMA Sagittal Coronal Transversal Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P	On On L-P-H REF H O mm S - C - T R >> L A >> P F >> H Sum of Squares Head > Brain Default Standard Off Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm

Frequency 1H	123.253687 MHz		
Correction factor	1		
MBExc 1H	280.027 V		
Gain	High		
Table position	0 mm		
Img. Scale. Cor.	1.000		
Physio			
1st Signal/Mode	None		
Magn. preparation	None		
Inline			
Distortion correction	Off		
Sequence			
Introduction	Off		
Averaging mode	Long term		
Multi-slice mode	Interleaved		
Bandwidth	2290 Hz/Px		
Echo spacing	0.58 ms		
EPI factor	90		
Gradient mode	Fast		
Online multi-band recon.	Remote		
Triggering scheme	Standard		
TX/RX delta frequency	0 Hz		
TX Nucleus	None		
TX delta frequency	0 Hz		
Coil elements	HEA; HEP		
Acquisition duration	0 ms		
BOLD	0 IIIS		
GLM Statistics	Off		
Dynamic t-maps	Off		
Starting ignore meas	0		
Ignore after transition	0		
Model transition states	On		
Temp. highpass filter	On		
Threshold	4.00		
Paradigm size	3		
	Off		
Motion correction	Off		
Spatial filter			
Delay in TR	0 ms		
Distortion Corr.	Off		
SIEMENS MAGNETOM Connecto	ome grmgo MD D11		
SIEMENS MAGNETOM CONNECCE			
\\USER\Lifespan\LS_Phase1b_14-	-55vo\SessionB\rfMRI REST RL		
TA:5:12 PAT:Off Voxel size:2.0x2			
	·		
Properties			
Prio Recon	Off		
Before measurement			
After measurement			
Load to viewer	On		
Inline movie	Off		
Auto store images	On		
Load to stamp segments	Off		
Load images to graphic segments	Off		
Auto open inline display	Off		
Wait for user to start	On		
Start measurements single			
Routine			

Nr. of slice groups

	Slices Dist. factor Position Orientation Phase enc. dir. AutoAlign Phase oversampling	72 0 % L0.0 P3.0 H6.0 mm T > C-20.0 R >> L Head > Brain 0 %
	FoV read FoV phase Slice thickness	208 mm 86.5 % 2.00 mm
	TR TE Multi-band accel. factor	720 ms 33.20 ms 8
	Filter Coil elements	None HEA;HEP
Cont:	rast	
	MTC	Off
	Magn. preparation	None
	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	420
	Delay in TR	0 ms
	Reconstruction	Magnitude Off
Pogo	Multiple series lution	OII
ICESU.	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom		
	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode Fat suppr.	L-P-H Fat sat.
	Special sat.	None
	Special sat.	None
	Table position	P
Syst		-
- 2 - 5	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T

```
Sagittal
                                              R >> L
     Coronal
                                              A >> P
     Transversal
                                              F >> H
                                              Sum of Squares
     Coil Combine Mode
                                              Head > Brain
     AutoAlign
     Auto Coil Select
                                              Default
     Shim mode
                                              Standard
     Adjust with body coil
                                              Off
     Confirm freq. adjustment
                                              Off
     Assume Dominant Fat
                                              Off
     Assume Silicone
                                              Off
     Adjustment Tolerance
                                              Auto
                                              0.000 V
     ? Ref. amplitude 1H
     Position
                                              L0.0 P3.0 H6.0 mm
    Rotation
                                              90.00 deg
    A >> P
                                              208 mm
    R >> L
                                              180 mm
     F >> H
                                              144 mm
                                              123.253687 MHz
     Frequency 1H
     Correction factor
     MBExc 1H
                                              280.027 V
     Gain
                                              High
     Table position
                                              0 mm
     Img. Scale. Cor.
                                              1.000
Physio
     1st Signal/Mode
                                              None
     Magn. preparation
                                              None
Inline
    Distortion correction
                                              Off
Sequence
                                              Off
    Introduction
     Averaging mode
                                              Long term
    Multi-slice mode
                                              Interleaved
     Bandwidth
                                              2290 Hz/Px
                                              0.58 ms
     Echo spacing
     EPI factor
                                              90
     Gradient mode
                                              Fast
     Online multi-band recon.
                                              Remote
     Triggering scheme
                                              Standard
     TX/RX delta frequency
                                              0 Hz
     TX Nucleus
                                              None
     TX delta frequency
                                              0 Hz
     Coil elements
                                              HEA; HEP
     Acquisition duration
                                              0 ms
BOLD
     GLM Statistics
                                              Off
                                              Off
     Dynamic t-maps
     Starting ignore meas
                                              0
     Ignore after transition
                                              0
     Model transition states
                                              On
     Temp. highpass filter
                                              On
     Threshold
                                              4.00
     Paradigm size
                                              3
     Motion correction
                                              Off
     Spatial filter
                                              Off
     Delay in TR
                                              0 ms
     Distortion Corr.
                                              Off
```

\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\tfMRI_SOCIAL_RL TA:3:27 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid Properties Off Prio Recon Before measurement After measurement Load to viewer On Inline movie Off Auto store images On Load to stamp segments Off Load images to graphic segments Off Auto open inline display Off Wait for user to start On Start measurements single Routine Nr. of slice groups 1 72 Slices Dist. factor 0 % Position L0.0 P3.0 H6.0 mm Orientation T > C-20.0Phase enc. dir. R >> L AutoAlign Head > Brain Phase oversampling 0 % FoV read 208 mm 86.5 % FoV phase Slice thickness 2.00 mm TR 720 ms ΤE 33.20 ms Multi-band accel. factor Filter None Coil elements HEA; HEP Contrast Off MTC Magn. preparation None Flip angle 52 deg Fat suppr. Fat sat. Averaging mode Long term Measurements 274 0 ms Delay in TR Reconstruction Magnitude Multiple series Off Resolution Base resolution 104 Phase resolution 100 % Phase partial Fourier Off Interpolation Off PAT mode None Distortion Corr. Off Hamming Off Prescan Normalize Off Raw filter Off Elliptical filter Off Geometry Nr. of slice groups 1 72 Slices Dist. factor 0 %

L0.0 P3.0 H6.0 mm

R >> L

Position

Phase enc. dir.

Phase oversampling Multi-slice mode Series Nr. of sat. regions Position mode Fat suppr. Special sat. Special sat. Table position	0 % Interleaved Interleaved 0 L-P-H Fat sat. None None P
System	
Body HEP HEA Position mode Positioning mode Table position Table position MSMA	Off On On L-P-H REF H O mm S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode AutoAlign Auto Coil Select Shim mode Adjust with body coil Confirm freq. adjustment Assume Dominant Fat Assume Silicone Adjustment Tolerance ? Ref. amplitude 1H Position Rotation A >> P R >> L F >> H Frequency 1H Correction factor MBExc 1H Gain	Sum of Squares Head > Brain Default Standard Off Off Off Off Off Auto 0.000 V L0.0 P3.0 H6.0 mm 90.00 deg 208 mm 180 mm 144 mm 123.253687 MHz 1 280.027 V High
Table position	0 mm
Img. Scale. Cor.	1.000
Physio	Mara
1st Signal/Mode Magn. preparation Inline	None None
Distortion correction	Off
Sequence	
Introduction	Off
Averaging mode Multi-slice mode Bandwidth Echo spacing EPI factor Gradient mode Online multi-band recon. Triggering scheme TX/RX delta frequency TX Nucleus	Long term Interleaved 2290 Hz/Px 0.58 ms 90 Fast Remote Standard 0 Hz None
TX delta frequency	0 Hz

```
Coil elements
                                        HEA; HEP
    Acquisition duration
                                        0 ms
BOLD
                                        Off
    GLM Statistics
                                        Off
    Dynamic t-maps
    Starting ignore meas
                                        Ω
    Ignore after transition
                                        0
    Model transition states
                                        On
    Temp. highpass filter
                                        On
    Threshold
                                        4.00
    Paradigm size
                                        3
    Motion correction
                                        Off
                                        Off
    Spatial filter
    Delay in TR
                                        0 ms
    Distortion Corr.
                                        Off
               SIEMENS MAGNETOM ConnectomS syngo MR D11
______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\tfMRI_SOCIAL_LR
        TA:3:27 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
______
Properties
    Prio Recon
                                        Off
    Before measurement
    After measurement
    Load to viewer
                                        On
    Inline movie
                                        Off
    Auto store images
                                        On
    Load to stamp segments
                                        Off
    Load images to graphic segments
                                        Off
    Auto open inline display
                                        Off
    Wait for user to start
                                        On
    Start measurements
                                        single
Routine
    Nr. of slice groups
    Slices
                                        72
    Dist. factor
                                        0 %
    Position
                                        L0.0 P3.0 H6.0 mm
    Orientation
                                        T > C-20.0
    Phase enc. dir.
                                        R >> L
    AutoAlian
                                        Head > Brain
    Phase oversampling
                                        0 %
    FoV read
                                        208 mm
    FoV phase
                                        86.5 %
    Slice thickness
                                        2.00 mm
    TR
                                        720 ms
                                        33.20 ms
    Multi-band accel. factor
                                        8
    Filter
                                        None
    Coil elements
                                        HEA; HEP
Contrast
    MTC
                                        Off
    Magn. preparation
                                        None
    Flip angle
                                        52 deg
    Fat suppr.
                                        Fat sat.
    Averaging mode
                                        Long term
```

274

0 ms

Magnitude

Measurements

Reconstruction

Delay in TR

Multiple series	Off
Resolution Base resolution	104
Phase resolution	104 100 %
Phase resolution Phase partial Fourier	Off
=	Off
Interpolation PAT mode	
	None
Distortion Corr.	Off
Hamming	Off
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Geometry	-
Nr. of slice groups	1
Slices	72
Dist. factor	0 %
Position	L0.0 P3.0 H6.0 mm
Phase enc. dir.	R >> L
Phase oversampling	0 %
Multi-slice mode	Interleaved
Series	Interleaved
Nr. of sat. regions	0
Position mode	L-P-H
Fat suppr.	Fat sat.
Special sat.	None
Special sat.	None
Table position	P
System	
Body	Off
HEP	On
HEA	On
Position mode	L-P-H
Positioning mode	REF
Table position	Н
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto
? Ref. amplitude 1H	0.000 V
Position	L0.0 P3.0 H6.0 mm
Rotation	90.00 deg
A >> P	208 mm
R >> L	180 mm
F >> H	144 mm
Frequency 1H	123.253687 MHz
Correction factor	123.25300/ MHZ 1
MBExc 1H	280.027 V
Gain	
Gain Table position	High 0 mm
-	0 mm 1.000
Img. Scale. Cor.	1.000

```
Physio
    1st Signal/Mode
                                        None
    Magn. preparation
                                        None
                                        Off
    Distortion correction
Sequence
                                        Off
    Introduction
    Averaging mode
                                        Long term
    Multi-slice mode
                                        Interleaved
    Bandwidth
                                        2290 Hz/Px
    Echo spacing
                                        0.58 \, \mathrm{ms}
    EPI factor
                                        90
    Gradient mode
                                        Fast
    Online multi-band recon.
                                       Remote
    Triggering scheme
                                        Standard
    TX/RX delta frequency
                                        0 Hz
    TX Nucleus
                                       None
    TX delta frequency
                                        0 Hz
    Coil elements
                                        HEA; HEP
    Acquisition duration
                                        0 ms
BOLD
    GLM Statistics
                                        Off
    Dynamic t-maps
                                        Off
    Starting ignore meas
    Ignore after transition
                                        0
    Model transition states
                                        On
    Temp. highpass filter
                                        On
    Threshold
                                        4.00
    Paradigm size
                                        3
    Motion correction
                                        Off
    Spatial filter
                                        Off
    Delay in TR
                                        0 ms
    Distortion Corr.
                                        Off
                 SIEMENS MAGNETOM ConnectomS syngo MR D11
          ______
         \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\tfMRI_GAMBLING_RL
        TA:3:11 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
______
Properties
    Prio Recon
                                        Off
    Before measurement
    After measurement
    Load to viewer
                                        On
    Inline movie
                                        Off
    Auto store images
                                        On
    Load to stamp segments
                                        Off
    Load images to graphic segments
                                      Off
    Auto open inline display
                                        Off
    Wait for user to start
                                        On
    Start measurements
                                        single
Routine
    Nr. of slice groups
    Slices
                                        72
    Dist. factor
    Position
                                        L0.0 P3.0 H6.0 mm
    Orientation
                                        T > C-20.0
                                        R >> L
    Phase enc. dir.
                                        Head > Brain
    AutoAlign
```

	Phase oversampling	0 %
	FoV read	208 mm
	FoV phase	86.5 %
	Slice thickness	2.00 mm
	TR	720 ms
	TE	33.20 ms
	Multi-band accel. factor	8
	Filter	None
	Coil elements	HEA;HEP
Cont	crast	
	MTC	Off
	Magn. preparation	None
	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	253
	Delay in TR	0 ms
	Reconstruction	Magnitude
D	Multiple series	Off
Resc	Olution	104
	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode Distortion Corr.	None Off
		Off
	Hamming Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geor	netry	OII
Geoi	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.
	Special sat.	None
	Special sat.	None
	Table position	P
Syst		
	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	H
	Table position	0 mm
	MSMA	S - C - T
	Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
	AutoAlign	Head > Brain
	Auto Coil Select	Default

```
Adjust with body coil
                                           Off
    Confirm freq. adjustment
                                           Off
    Assume Dominant Fat
                                           Off
    Assume Silicone
                                           Off
    Adjustment Tolerance
                                           Auto
    ? Ref. amplitude 1H
                                           0.000 V
    Position
                                           L0.0 P3.0 H6.0 mm
    Rotation
                                           90.00 deg
    A >> P
                                           208 mm
    R >> L
                                           180 mm
    F >> H
                                           144 mm
                                           123.253687 MHz
    Frequency 1H
    Correction factor
                                           280.027 V
    MBExc 1H
    Gain
                                           High
    Table position
                                           0 mm
                                           1.000
    Img. Scale. Cor.
Physio
    1st Signal/Mode
                                           None
    Magn. preparation
                                           None
    Distortion correction
                                           Off
Sequence
    Introduction
                                           Off
    Averaging mode
                                           Long term
    Multi-slice mode
                                           Interleaved
    Bandwidth
                                           2290 Hz/Px
    Echo spacing
                                           0.58 \, \mathrm{ms}
    EPI factor
                                           90
    Gradient mode
                                           Fast
    Online multi-band recon.
                                           Remote
    Triggering scheme
                                           Standard
    TX/RX delta frequency
                                           0 Hz
    TX Nucleus
                                           None
    TX delta frequency
                                           0 Hz
    Coil elements
                                           HEA; HEP
    Acquisition duration
                                           0 ms
BOLD
    GLM Statistics
                                           Off
    Dynamic t-maps
                                           Off
    Starting ignore meas
    Ignore after transition
                                           0
    Model transition states
                                           On
    Temp. highpass filter
                                           On
    Threshold
                                           4.00
    Paradigm size
                                           3
    Motion correction
                                           Off
    Spatial filter
                                           Off
    Delay in TR
                                           0 ms
    Distortion Corr.
                                           Off
                SIEMENS MAGNETOM ConnectomS syngo MR D11
           ______
        \\USER\Lifespan\LS_Phase1b_14-55yo\SessionB\tfMRI_GAMBLING_LR
         TA:3:11 PAT:Off Voxel size:2.0x2.0x2.0 mm Rel. SNR:1.00 :epfid
Properties
```

Standard

Shim mode

Prio Recon

100

Off

	Before measurement	
	After measurement	
	Load to viewer	On
	Inline movie	Off
	Auto store images	On
	Load to stamp segments	Off
	Load images to graphic segments	Off
	Auto open inline display	Off
	Wait for user to start	On
Rout	Start measurements	single
Rout	Nr. of slice groups	1
	Slices	72
	Dist. factor	0 %
	Position	L0.0 P3.0 H6.0 mm
	Orientation	T > C-20.0
	Phase enc. dir.	R >> L
	AutoAlign	Head > Brain
	Phase oversampling	0 %
	FoV read	208 mm
	FoV phase	86.5 %
	Slice thickness	2.00 mm
	TR	720 ms
	TE Multi-band accel. factor	33.20 ms 8
	Filter	None
	Coil elements	HEA; HEP
Cont	rast	11111,11111
	MTC	Off
	Magn. preparation	None
	Flip angle	52 deg
	Fat suppr.	Fat sat.
	Averaging mode	Long term
	Measurements	253
	Delay in TR	0 ms
	Reconstruction	Magnitude
Dogo	Multiple series	Off
Resc	Base resolution	104
	Phase resolution	100 %
	Phase partial Fourier	Off
	Interpolation	Off
	PAT mode	None
	Distortion Corr.	Off
	Hamming	Off
	Prescan Normalize	Off
	Raw filter	Off
	Elliptical filter	Off
Geom	etry	1
	Nr. of slice groups Slices	1 72
	Dist. factor	0 %
	Position	LO.0 P3.0 H6.0 mm
	Phase enc. dir.	R >> L
	Phase oversampling	0 %
	Multi-slice mode	Interleaved
	Series	Interleaved
	Nr. of sat. regions	0
	Position mode	L-P-H
	Fat suppr.	Fat sat.

	Special sat.	None
	Special sat.	None
	Table position	P
Syst		
Dybe	Body	Off
	HEP	On
	HEA	On
	Position mode	L-P-H
	Positioning mode	REF
	Table position	Н
	Table position	0 mm
	MSMA	S - C - T
	MSMA Sagittal	R >> L
	Coronal	A >> P
	Transversal	F >> H
	Coil Combine Mode	Sum of Squares
		Head > Brain
	AutoAlign Auto Coil Select	Default
	Shim mode	Standard
	Adjust with body coil	Off
		-
	Confirm freq. adjustment	Off
	Assume Dominant Fat	Off
	Assume Silicone	Off
	Adjustment Tolerance	Auto
	? Ref. amplitude 1H	0.000 V
	Position	L0.0 P3.0 H6.0 mm
	Rotation	90.00 deg
	A >> P	208 mm
	R >> L	180 mm
	F >> H	144 mm
	Frequency 1H	123.253687 MHz
	Correction factor	1
	MBExc 1H	280.027 V
	Gain	High
	Table position	0 mm
-1	Img. Scale. Cor.	1.000
Phys		
	1st Signal/Mode	None
	Magn. preparation	None
Inli	 -	
_	Distortion correction	Off
Sequ		- 5 5
	Introduction	Off
	Averaging mode	Long term
	Multi-slice mode	Interleaved
	Bandwidth	2290 Hz/Px
	Echo spacing	0.58 ms
	EPI factor	90
	Gradient mode	Fast
	Online multi-band recon.	Remote
	Triggering scheme	Standard
	TX/RX delta frequency	0 Hz
	TX Nucleus	None
	TX delta frequency	0 Hz
	Coil elements	HEA;HEP
	Acquisition duration	0 ms
BOLD		0.5.5
	GLM Statistics	Off
	Dynamic t-maps	Off
	Starting ignore meas	0

```
Ignore after transition
                                       0
Model transition states
                                       On
Temp. highpass filter
                                       On
Threshold
                                       4.00
Paradigm size
                                       3
Motion correction
                                       Off
Spatial filter
                                       Off
Delay in TR
                                       0 ms
Distortion Corr.
                                       Off
```

T.13. of a . . .

Table Of Contents

\\USER

L	ifespan			
ĺ	LS_Phase1b_14-55yo			
ĺ			SessionA	
j		į i		Localizer
İ				AAHScout
i		j		Localizer_aligned
i				BIAS_BC
İ				BIAS_32CH
i		İ		SpinEchoFieldMap_RL
i		i		SpinEchoFieldMap_LR
-				rfMRI_REST_RL
-				rfMRI_REST_LR
-		 		T1w_MPR
l				T2w_SPC
-				SpinEchoFieldMap_RL
-				SpinEchoFieldMap_LR
-				rfMRI REST RL
-				
-				rfMRI_REST_LR tfMRI_WM_RL
-				tfMRI_WM_LR
-				
-				tfMRI_EMOTION_RL
				tfMRI_EMOTION_LR
-				T1w_vNav_3e
ļ			SessionB	T 1
-				Localizer
				AAHScout
				Localizer_aligned
ļ				BIAS_BC
ļ				BIAS_32CH
-				SpinEchoFieldMap_RL
ļ				SpinEchoFieldMap_LR
				rfMRI_REST_LR
ļ				rfMRI_REST_RL
ļ				DWI_dir79_RL
ļ				DWI_dir79_LR
ļ				DWI_dir84_RL
ļ				DWI_dir84_LR
				SpinEchoFieldMap_RL
		[SpinEchoFieldMap_LR
				rfMRI_REST_LR
				rfMRI_REST_RL
				tfMRI_SOCIAL_RL

	tfMRI_SOCIAL_LR
ĺ	tfMRI_GAMBLING_RL
ĺ	tfMRI_GAMBLING_LR