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\\Librairie CHUV

RESEARCH

Oscar

HCPH_RL_Vida

AAhead_scout_64ch-head-coil anat-T1w__t1_mprage_tra_p2_iso_siemens_axial fmap-epi_acq-bold_dir-RL__cmrr_me4_sms1 fmap-epi_acq-bold_dir-LR__cmrr_me4_sms1 fmap-epi_acq-bold_dir-AP__cmrr_me4_sms1 fmap-epi_acq-bold_dir-PA__cmrr_me4_sms1 func-bold_task-rest_dir-RL__cmrr_me4_s fmap-phasediff__gre dwi-dwi_acq-highres_dir-RL fmap-epi_acq-b0_dir-LR__6dir_monopolar_HR1_2mm_BW fmap-epi_acq-b0_dir-RL__6dir_monopolar_HR1_2mm_BW fmap-epi_acq-b0_dir-AP__6dir_monopolar fmap-epi_acq-b0_dir-PA__6dir_monopolar anat-T2w__space

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\AAhead_scout_64ch-head-coil

TA: 14 sec Coil Selection: Auto Voxel Size: 1.6×1.6×1.6 mm³ Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	Off
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

Resolution - Acceleration

Acceleration Factor 3D	1
Phase Partial Fourier	6/8
Slice Partial Fourier	6/8
Asymmetric Echo	Weak

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	3D
Normalize	Prescan
Noise Masking	Off
Image Filter	Off

Routine

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	128
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	260 mm
FoV Phase	100.0 %
Slice Thickness	1.6 mm
TR	3.2 ms
TE	1.37 ms
Averages	1
Concatenations	1
AutoAlign	Head

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	128
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	260 mm
FoV Phase	100.0 %
Slice Thickness	1.6 mm
TR	3.2 ms
Multi-Slice Mode	Sequential
Series	Ascending
Concatenations	1

Contrast - Common

TR	3.2 ms
TE	1.37 ms
Flip Angle	8 deg
Fat-Water Contrast	Standard
Contrasts	1
Reconstruction	Magnitude

Geometry - AutoAlign

Slab Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	Head
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Time to Center	6.2 s

Resolution - Common

FoV Read	260 mm
FoV Phase	100.0 %
Slice Thickness	1.6 mm
Base Resolution	160
Phase Resolution	100 %
Slice Resolution	69 %
Trajectory	Cartesian

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	24

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Non-sel.

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
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Inline - MapIt

MapIt	None
Flip Angle	8 deg
Measurements	1
Contrasts	1
TE	1.37 ms
TR	3.2 ms
Save Original Images	On

Sequence - Part 1

Sequence Name	fl
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Sequence - Part 1

Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Fast
Gradient Mode	Normal
Bandwidth	540 Hz/Px
Asymmetric Echo	Weak

Sequence - Part 2

Introduction	On
RF Spoiling	On
Breast Application	Off

Sequence - Assistant

SAR Assistant	Off
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\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\anat-T1w__t1_mprage_tra_p2_iso_siemens_axial

TA: 4:23 min Coil Selection: Auto Voxel Size: 0.9×0.9×0.9 mm³ Acc.: 2 Rel. SNR: 1.00

Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	15.4 %
FoV Read	230 mm
FoV Phase	84.4 %
Slice Thickness	0.9 mm
TR	2200.0 ms
TE	2.46 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	2200.0 ms
TE	2.46 ms
Magn. Preparation	Non-sel. IR
TI	900 ms
Flip Angle	8 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FoV Read	230 mm
FoV Phase	84.4 %
Slice Thickness	0.9 mm
Base Resolution	256
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	1
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Allowed
Elliptical Scanning	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Prescan
Image Filter	On

Geometry - Common

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	15.4 %
FoV Read	230 mm
FoV Phase	84.4 %
Slice Thickness	0.9 mm
TR	2200.0 ms
Multi-Slice Mode	Single Shot
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	L0.0 A12.9 F3.9
R	0.0 mm
A	12.9 mm
F	3.9 mm
Initial Orientation	Transversal
Initial Rotation	90.00 deg

Geometry - Navigator

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	4 mm
Table Position	F
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T

System - Miscellaneous

Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Slab-sel.

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	2200.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	Non-sel. IR
TI	900 ms
Dark Blood	Off
FoV Read	230 mm
FoV Phase	84.4 %
Phase Resolution	100 %

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off

Inline - MIP

MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
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Inline - MapIt

MapIt	None
Flip Angle	8 deg
Measurements	1
TE	2.46 ms
TR	2200.0 ms
Save Original Images	On

Sequence - Part 1

Sequence Name	tfl
Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Gradient Mode	Normal
Flow Compensation	None
Reordering	Linear
Bandwidth	260 Hz/Px
Echo Spacing	7.16 ms
Asymmetric Echo	Allowed
Turbo Factor	240

Sequence - Part 2

Introduction	On
RF Spoiling	On
Incr. Gradient Spoiling	On

Sequence - Assistant

SAR Assistant	Off
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\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\ fmap-epi_acq-bold_dir-RL_cmrr_me4_sms1

TA: 29 sec Coil Selection: Auto Voxel Size: 2.2×2.2×2.2 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
TR	4150.0 ms
TE	35.00 ms
Averages	1
Multi-band accel. factor	1
AutoAlign	Head > Brain

Contrast - Common

TR	4150.0 ms
TE	35.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	64 deg
Fat-Water Contrast	Fat Saturation
Contrasts	1
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	4
Delay in TR	0.00 ms

Resolution - Common

FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
Base Resolution	104
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference scan mode	Single-shot
Acceleration Factor PE	2
Reference Lines PE	20
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	2D
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
TR	4150.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Multi-band accel. factor	1

Geometry - AutoAlign

Slice Group	1
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	R1.8 A1.6 H0.2
R	1.8 mm
A	1.6 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	90.00 deg

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard

System - Adjustments

B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Assistant

SAR Assistant	Off
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System - Adjust Volume

Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	90.00 deg
R >> L	205 mm
A >> P	231 mm
F >> H	132 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	4150.0 ms
Multi-band accel. factor	1

Sequence - Part 1

Sequence Name	epfid
Dimension	2D
Excitation	Standard
Gradient Mode	Fast*
Flow Compensation	None
Bandwidth	2090 Hz/Px
Echo Spacing	0.66 ms
Free Echo Spacing	Off
EPI Factor	92

Sequence - Part 2

Introduction	Off
RF Spoiling	Off

Sequence - Special

Excite pulse duration	2320 us
Min. prep scans	0
Delay before PC scans	0 us
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Force Maxwell corr.	Off
PF omits higher k-space	Off
Disable freq. update	Off
Suppress 16-bit DICOM	Off
Force equal slice timing	Off
FFT scale factor	1.00
Fat saturation FA	110.00 deg
Fat sat. offset	0.00 Hz
Sinc exc. pulse BWTP	5.20
Physio recording	Off
Triggering scheme	Standard

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\map-epi_acq-bold_dir-LR_cmrr_me4_sms1

TA: 29 sec Coil Selection: Auto Voxel Size: 2.2×2.2×2.2 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	L >> R
Phase Oversampling	0 %
FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
TR	4150.0 ms
TE	35.00 ms
Averages	1
Multi-band accel. factor	1
AutoAlign	Head > Brain

Contrast - Common

TR	4150.0 ms
TE	35.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	64 deg
Fat-Water Contrast	Fat Saturation
Contrasts	1
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	4
Delay in TR	0.00 ms

Resolution - Common

FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
Base Resolution	104
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference scan mode	Single-shot
Acceleration Factor PE	2
Reference Lines PE	20
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	2D
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	L >> R
Phase Oversampling	0 %
FoV Read	231 mm
FoV Phase	88.5 %
Slice Thickness	2.2 mm
TR	4150.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Multi-band accel. factor	1

Geometry - AutoAlign

Slice Group	1
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	L >> R
AutoAlign	Head > Brain
Initial Position	R1.8 A1.6 H0.2
R	1.8 mm
A	1.6 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	-90.00 deg

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard

System - Adjustments

B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Assistant

SAR Assistant	Off
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System - Adjust Volume

Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	-90.00 deg
R >> L	205 mm
A >> P	231 mm
F >> H	132 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	4150.0 ms
Multi-band accel. factor	1

Sequence - Part 1

Sequence Name	epfid
Dimension	2D
Excitation	Standard
Gradient Mode	Fast*
Flow Compensation	None
Bandwidth	2186 Hz/Px
Echo Spacing	0.70 ms
Free Echo Spacing	Off
EPI Factor	92

Sequence - Part 2

Introduction	Off
RF Spoiling	Off

Sequence - Special

Excite pulse duration	2320 us
Min. prep scans	0
Delay before PC scans	0 us
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Force Maxwell corr.	Off
PF omits higher k-space	Off
Disable freq. update	Off
Suppress 16-bit DICOM	Off
Force equal slice timing	Off
FFT scale factor	1.00
Fat saturation FA	110.00 deg
Fat sat. offset	0.00 Hz
Sinc exc. pulse BWTP	5.20
Physio recording	Off
Triggering scheme	Standard

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\fmepi_acq-bold_dir-AP_cmrr_me4_sms1

TA: 29 sec Coil Selection: Auto Voxel Size: 2.2×2.2×2.2 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	4150.0 ms
TE	35.00 ms
Averages	1
Multi-band accel. factor	1
AutoAlign	Head > Brain

Contrast - Common

TR	4150.0 ms
TE	35.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	64 deg
Fat-Water Contrast	Fat Saturation
Contrasts	1
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	4
Delay in TR	0.00 ms

Resolution - Common

FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
Base Resolution	96
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference scan mode	Single-shot
Acceleration Factor PE	2
Reference Lines PE	22
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	2D
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	4150.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Multi-band accel. factor	1

Geometry - AutoAlign

Slice Group	1
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	A >> P
AutoAlign	Head > Brain
Initial Position	R1.8 A1.6 H0.2
R	1.8 mm
A	1.6 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	0.00 deg

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard

System - Adjustments

B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Assistant

SAR Assistant	Off
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System - Adjust Volume

Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	0.00 deg
A >> P	211 mm
R >> L	211 mm
F >> H	132 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	4150.0 ms
Multi-band accel. factor	1

Sequence - Part 1

Sequence Name	epfid
Dimension	2D
Excitation	Standard
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	2170 Hz/Px
Echo Spacing	0.65 ms
Free Echo Spacing	Off
EPI Factor	96

Sequence - Part 2

Introduction	Off
RF Spoiling	Off

Sequence - Special

Excite pulse duration	2320 us
Min. prep scans	0
Delay before PC scans	0 us
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Force Maxwell corr.	Off
PF omits higher k-space	Off
Disable freq. update	Off
Suppress 16-bit DICOM	Off
Force equal slice timing	Off
FFT scale factor	1.00
Fat saturation FA	110.00 deg
Fat sat. offset	0.00 Hz
Sinc exc. pulse BWTP	5.20
Physio recording	Off
Triggering scheme	Standard

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\fmepi_acq-bold_dir-PA_cmrr_me4_sms1

TA: 29 sec Coil Selection: Auto Voxel Size: 2.2×2.2×2.2 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	4150.0 ms
TE	35.00 ms
Averages	1
Multi-band accel. factor	1
AutoAlign	Head > Brain

Contrast - Common

TR	4150.0 ms
TE	35.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	64 deg
Fat-Water Contrast	Fat Saturation
Contrasts	1
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	4
Delay in TR	0.00 ms

Resolution - Common

FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
Base Resolution	96
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Reference scan mode	Single-shot
Acceleration Factor PE	2
Reference Lines PE	22
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	2D
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	4150.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Multi-band accel. factor	1

Geometry - AutoAlign

Slice Group	1
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	R1.8 A1.6 H0.2
R	1.8 mm
A	1.6 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	-180.00 deg

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard

System - Adjustments

B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Assistant

SAR Assistant	Off
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System - Adjust Volume

Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	-180.00 deg
A >> P	211 mm
R >> L	211 mm
F >> H	132 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	4150.0 ms
Multi-band accel. factor	1

Sequence - Part 1

Sequence Name	epfid
Dimension	2D
Excitation	Standard
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	2170 Hz/Px
Echo Spacing	0.65 ms
Free Echo Spacing	Off
EPI Factor	96

Sequence - Part 2

Introduction	Off
RF Spoiling	Off

Sequence - Special

Excite pulse duration	2320 us
Min. prep scans	0
Delay before PC scans	0 us
SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Force Maxwell corr.	Off
PF omits higher k-space	Off
Disable freq. update	Off
Suppress 16-bit DICOM	Off
Force equal slice timing	Off
FFT scale factor	1.00
Fat saturation FA	110.00 deg
Fat sat. offset	0.00 Hz
Sinc exc. pulse BWTP	5.20
Physio recording	Off
Triggering scheme	Standard

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\func-bold_task-rest_dir-RL__cmrr_me4_s

TA: 20:29 min Coil Selection: Auto Voxel Size: 2.2×2.2×2.2 mm³ Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Resolution - Acceleration

Reference scan mode	Single-shot
Acceleration Factor PE	2
Reference Lines PE	22
Phase Partial Fourier	6/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	2D
Static Field Correction	Off
Normalize	Off

Routine

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	1600.0 ms
TE 1	13.80 ms
TE 2	40.54 ms
TE 3	67.26 ms
Averages	1
Multi-band accel. factor	4
AutoAlign	Head > Brain

Geometry - Common

Slice Group	1
Slices	60
Distance Factor	0 %
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
TR	1600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Multi-band accel. factor	4

Geometry - AutoAlign

Slice Group	1
Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	R1.8 A1.6 H0.2
R	1.8 mm
A	1.6 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	90.00 deg

Contrast - Common

TR	1600.0 ms
TE 1	13.80 ms
TE 2	40.54 ms
TE 3	67.26 ms
MTC	Off
Magn. Preparation	None
Flip Angle	64 deg
Fat-Water Contrast	Fat Saturation
Contrasts	3
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	750
Delay in TR	0.00 ms

Resolution - Common

FoV Read	211 mm
FoV Phase	100.0 %
Slice Thickness	2.2 mm
Base Resolution	96
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
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Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Sum of Squares

System - Miscellaneous

Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R1.8 A1.6 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	90.00 deg
R >> L	211 mm
A >> P	211 mm
F >> H	132 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	1600.0 ms
Multi-band accel. factor	4

Sequence - Part 1

Sequence Name	epfid
Dimension	2D
Excitation	Standard
Gradient Mode	Fast*
Flow Compensation	None
Bandwidth	2170 Hz/Px
Echo Spacing	0.72 ms
Free Echo Spacing	Off
EPI Factor	96

Sequence - Part 2

Introduction	Off
RF Spoiling	Off

Sequence - Special

Excite pulse duration	2320 us
Min. prep scans	0
Min. prep scans SB	0
Inter-TE delay	0 us
Delay before PC scans	0 us
Single-band images	Off
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
Opt. MB RF pulse BW	Off

Sequence - Special

SENSE1 coil combine	Off
Invert RO/PE polarity	Off
Force Maxwell corr.	Off
PF omits higher k-space	Off
Disable freq. update	Off
Suppress 16-bit DICOM	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Fat saturation FA	110.00 deg
Fat sat. offset	0.00 Hz
Sinc exc. pulse BWTP	5.20
Physio recording	Off
Triggering scheme	Standard

Sequence - Assistant

SAR Assistant	Off
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\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vidal\map-phasediff__gre

TA: 2:31 min Coil Selection: Auto Voxel Size: 2.0×2.0×2.0 mm³ Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	72
Distance Factor	0 %
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	228 mm
FoV Phase	100.0 %
Slice Thickness	2.0 mm
TR	324.0 ms
TE 1	4.45 ms
TE 2	6.91 ms
Averages	1
Concatenations	2
AutoAlign	Head > Brain

Contrast - Common

TR	324.0 ms
TE 1	4.45 ms
TE 2	6.91 ms
MTC	Off
Flip Angle	55 deg
Fat-Water Contrast	Standard
Contrasts	2
Reconstruction	Magn./Phase

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off

Resolution - Common

FoV Read	228 mm
FoV Phase	100.0 %
Slice Thickness	2.0 mm
Base Resolution	114
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Phase Partial Fourier	Off
Asymmetric Echo	Off

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	2D
Normalize	Off
Image Filter	Off

Geometry - Common

Slice Group	1
Slices	72
Distance Factor	0 %
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	228 mm
FoV Phase	100.0 %
Slice Thickness	2.0 mm
TR	324.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	2

Geometry - AutoAlign

Slice Group	1
Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.0 A12.9 F3.9
R	0.0 mm
A	12.9 mm
F	3.9 mm
Initial Orientation	Transversal
Initial Rotation	180.00 deg

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	4 mm
Table Position	F
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto

System - Adjustments

Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L0.0 A12.9 F3.9 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	228 mm
R >> L	228 mm
F >> H	144 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
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System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Sequence - Part 1

Sequence Name	fm_r
Dimension	2D
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	On
Bandwidth	1218 Hz/Px
Asymmetric Echo	Off

Sequence - Part 2

Introduction	On
RF Spoiling	On

Sequence - Assistant

SAR Assistant	Off
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\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\dw-dwi_acq-highres_dir-RL

TA: 33:25 min Coil Selection: Auto Voxel Size: 1.6×1.6×1.6 mm³ Acc:: 6 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	87
Distance Factor	0 %
Position	L0.1 A10.2 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	234 mm
FoV Phase	101.4 %
Slice Thickness	1.6 mm
TR	7000.0 ms
TE	121.00 ms
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	7000.0 ms
TE	121.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

Resolution - Common

FoV Read	234 mm
FoV Phase	101.4 %
Slice Thickness	1.6 mm
Base Resolution	146
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	54
SMS Factor	3
Phase Partial Fourier	7/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Prescan
Noise Masking	Off

Geometry - Common

Slice Group	1
Slices	87
Distance Factor	0 %
Position	L0.1 A10.2 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	234 mm
FoV Phase	101.4 %
Slice Thickness	1.6 mm
TR	7000.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	L0.1 A10.2 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	L0.1 A10.2 H0.2
L	0.1 mm
A	10.2 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	90.50 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	L0.1 A10.2 H0.2 mm
Orientation	T > C-1.4 > S-0.9
Rotation	180.50 deg
A >> P	234 mm
R >> L	238 mm
F >> H	140 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	7000.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	Free
Diff. Directions	279
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	0 s/mm ²
b-value 2	3000 s/mm ²
Averages 1	1
Averages 2	1
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	On
Tensor	On
FA Maps	On
ADC Maps	On
Exponential ADC Maps	Off
ADC Noise Threshold	40
Noise Masking	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Fast

Sequence - Part 1

Bandwidth	1630 Hz/Px
Echo Spacing	0.96 ms
Free Echo Spacing	On
Optimization	None
EPI Factor	148

Sequence - Part 2

Introduction	On
Phase Correction	Internal

Sequence - Assistant

SAR Assistant	Off
Optimization	None

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\map-epi_acq-b0_dir-LR__6dir_monopolar_HR1_2mm_BW

TA: 54 sec Coil Selection: Auto Voxel Size: 1.6×1.6×1.2 mm³ Acc:: 6 Rel. SNR: 1.00

Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	L >> R
Phase Oversampling	0 %
FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
TR	5400.0 ms
TE	90.00 ms
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	5400.0 ms
TE	90.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

Resolution - Common

FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
Base Resolution	190
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	40
SMS Factor	3
Phase Partial Fourier	7/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	L >> R
Phase Oversampling	0 %
FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
TR	5400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	L >> R
AutoAlign	Head > Brain
Initial Position	L0.1 A10.2 H0.2
L	0.1 mm
A	10.2 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	-89.50 deg

Geometry - Navigator

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Rotation	-91.28 deg
R >> L	230 mm
A >> P	312 mm
F >> H	137 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5400.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	Free
Diff. Directions	6
Diffusion Scheme	Monopolar
Diff. Weightings	1
b-value	0 s/mm ²
Averages	3
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	Off
Tensor	Off
FA Maps	Off
ADC Maps	Off
Exponential ADC Maps	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Fast*
Bandwidth	1462 Hz/Px
Echo Spacing	0.97 ms
Free Echo Spacing	On
Optimization	None

Sequence - Part 1

EPI Factor	140
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Sequence - Part 2

Introduction	Off
Phase Correction	Internal

Sequence - Assistant

SAR Assistant	Off
Optimization	None

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\map-epi_acq-b0_dir-RL__6dir_monopolar_HR1
_2mm_BW

TA: 54 sec Coil Selection: Auto Voxel Size: 1.6×1.6×1.2 mm³ Acc:: 6 Rel. SNR: 1.00

Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
TR	5400.0 ms
TE	90.00 ms
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	5400.0 ms
TE	90.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

Resolution - Common

FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
Base Resolution	190
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	40
SMS Factor	3
Phase Partial Fourier	7/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	R >> L
Phase Oversampling	0 %
FoV Read	312 mm
FoV Phase	73.7 %
Slice Thickness	1.2 mm
TR	5400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	R >> L
AutoAlign	Head > Brain
Initial Position	L0.1 A10.2 H0.2
L	0.1 mm
A	10.2 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	90.50 deg

Geometry - Navigator

Geometry - Saturation

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	22 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Rotation	88.72 deg
R >> L	230 mm
A >> P	312 mm
F >> H	137 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5400.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	Free
Diff. Directions	6
Diffusion Scheme	Monopolar
Diff. Weightings	1
b-value	0 s/mm ²
Averages	3
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	Off
Tensor	Off
FA Maps	Off
ADC Maps	Off
Exponential ADC Maps	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Fast*
Bandwidth	1462 Hz/Px
Echo Spacing	0.97 ms
Free Echo Spacing	On
Optimization	None

Sequence - Part 1

EPI Factor	140
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Sequence - Part 2

Introduction	Off
Phase Correction	Internal

Sequence - Assistant

SAR Assistant	Off
Optimization	None

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\map-epi_acq-b0_dir-AP__6dir_monopolar

TA: 56 sec Coil Selection: Auto Voxel Size: 1.5×1.5×1.2 mm³ Acc:: 6 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
TR	5600.0 ms
TE	90.00 ms
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	5600.0 ms
TE	90.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

Resolution - Common

FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
Base Resolution	190
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	40
SMS Factor	3
Phase Partial Fourier	7/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
TR	5600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.1 A10.2 H0.2
L	0.1 mm
A	10.2 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	0.50 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
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System - Adjustments

B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Part 2

Introduction	Off
Phase Correction	Internal

Sequence - Assistant

SAR Assistant	Off
Optimization	None

System - Adjust Volume

Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Rotation	-1.28 deg
A >> P	253 mm
R >> L	292 mm
F >> H	137 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5600.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	Free
Diff. Directions	6
Diffusion Scheme	Monopolar
Diff. Weightings	1
b-value	0 s/mm ²
Averages	3
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	Off
Tensor	Off
FA Maps	Off
ADC Maps	Off
Exponential ADC Maps	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Fast
Bandwidth	1462 Hz/Px
Echo Spacing	0.96 ms
Free Echo Spacing	On
Optimization	None
EPI Factor	164

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vida\map-epi_acq-b0_dir-PA__6dir_monopolar

TA: 56 sec Coil Selection: Auto Voxel Size: 1.5×1.5×1.2 mm³ Acc:: 6 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
TR	5600.0 ms
TE	90.00 ms
Concatenations	1
AutoAlign	Head > Brain

Contrast - Common

TR	5600.0 ms
TE	90.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

Resolution - Common

FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
Base Resolution	190
Phase Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	2
Reference Lines PE	40
SMS Factor	3
Phase Partial Fourier	7/8

Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Off

Geometry - Common

Slice Group	1
Slices	114
Distance Factor	0 %
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FoV Read	292 mm
FoV Phase	86.3 %
Slice Thickness	1.2 mm
TR	5600.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice Group	1
Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.1 A10.2 H0.2
L	0.1 mm
A	10.2 mm
H	0.2 mm
Initial Orientation	T > C
T > C	-1.40
> S	-0.90
Initial Rotation	180.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	22 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	Auto Coil Select
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
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System - Adjustments

B0 Shim	Standard
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

Sequence - Part 2

Introduction	Off
Phase Correction	Internal

Sequence - Assistant

SAR Assistant	Off
Optimization	None

System - Adjust Volume

Position	R2.9 P9.3 H22.1 mm
Orientation	T > S2.9 > C-1.0
Rotation	178.72 deg
A >> P	253 mm
R >> L	292 mm
F >> H	137 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Standard

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
TR	5600.0 ms
Concatenations	1

Physio - PACE

Resp. Control	Off
Concatenations	1

Diff

Diffusion Mode	Free
Diff. Directions	6
Diffusion Scheme	Monopolar
Diff. Weightings	1
b-value	0 s/mm ²
Averages	3
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	Off
Tensor	Off
FA Maps	Off
ADC Maps	Off
Exponential ADC Maps	Off
Calculated Image	Off

Sequence - Part 1

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Fast
Bandwidth	1462 Hz/Px
Echo Spacing	0.96 ms
Free Echo Spacing	On
Optimization	None
EPI Factor	164

\\Librairie CHUV\RESEARCH\Oscar\HCPH_RL_Vidal\anat-T2w__space

TA: 5:44 min Coil Selection: Auto Voxel Size: 0.8×0.8×0.8 mm³ Acc.: 3 Rel. SNR: 1.00

Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

Routine

Slab Group	1
Slabs	1
Position	R1.9 P3.1 H6.1 mm
Orientation	S > T-3.8 > C-1.9
Phase Encoding Dir.	A >> P
Slices per Slab	240
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	256 mm
FoV Phase	100.0 %
Slice Thickness	0.80 mm
TR	3200.0 ms
TE	413.00 ms
Averages	1.0
Concatenations	1
AutoAlign	Head > Basis

Contrast - Common

TR	3200.0 ms
TE	413.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	T2 Var
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	Restore
Reconstruction	Magnitude

Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

Resolution - Common

FoV Read	256 mm
FoV Phase	100.0 %
Slice Thickness	0.80 mm
Base Resolution	320
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

Resolution - Acceleration

Acceleration mode	GRAPPA
Total Factor	3
Reference Scans	Integrated
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Phase Partial Fourier	Allowed
Slice Partial Fourier	Off
Elliptical Scanning	Off

Resolution - Filter

Raw Filter	On
Elliptical Filter	Off
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

Geometry - Common

Slab Group	1
Slabs	1
Position	R1.9 P3.1 H6.1 mm
Orientation	S > T-3.8 > C-1.9
Phase Encoding Dir.	A >> P
Slices per Slab	240
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FoV Read	256 mm
FoV Phase	100.0 %
Slice Thickness	0.80 mm
TR	3200.0 ms
Concatenations	1

Geometry - AutoAlign

Slab Group	1
Position	R1.9 P3.1 H6.1 mm
Orientation	S > T-3.8 > C-1.9
Phase Encoding Dir.	A >> P
AutoAlign	Head > Basis
Initial Position	L0.0 A0.9 H17.3
R	0.0 mm
A	0.9 mm
H	17.3 mm
Initial Orientation	Sagittal
Initial Rotation	0.00 deg

Geometry - Navigator**Geometry - Saturation**

Special Saturation	None
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Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

System - Miscellaneous

Coil Selection	ACS All but spine
MSMA	S - C - T
Sagittal	R >> L

System - Miscellaneous

Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

System - Adjustments

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
CoilShim	Off
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

System - Adjust Volume

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

System - pTx

B1 Shim	TrueForm
Excitation	Non-sel.

System - Tx/Rx

Frequency 1H	123.260537 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

Physio - Signal

1st Signal/Mode	None
Trigger Delay	0 ms
TR	3200.0 ms
Concatenations	1

Physio - Cardiac

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FoV Read	256 mm
FoV Phase	100.0 %
Phase Resolution	100 %

Physio - PACE

Resp. Control	Off
Concatenations	1

Inline - Subtraction

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

Inline - MIP

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off

Inline - MIP

MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

Inline - Composing

Inline Composing	Off
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Sequence - Part 1

Sequence Name	spcR
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	710 Hz/Px
Echo Spacing	3.86 ms
Turbo Factor	282
Echo Train Duration	961 ms

Sequence - Part 2

Introduction	On
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Sequence - Assistant

SAR Assistant	Off
Allowed Delay	30 s