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\\USER

Development

Dr. Vachon-Presseau

vaso-test-2022-12-08

localizer b1map_tra_p2 anat-T1w_acq-mp2rage_0.8mm_CS_wip925 rslh_ep3d_vaso_fullbrain_0.8x0.8x0.9 rslh_ep3d_vaso_task rslh_ep3d_vaso_task CR_tfl_MTboost

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\localizer

TA: 0:15 PM: REF Voxel size: 0.5×0.5×5.0 mmPAT: Off Rel. SNR: 1.00 : qfl

Properties

Prio recon	On
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	On
Load images to graphic segments	On
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Noutine	
Slice group	1
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.6 ms
TE	3.69 ms
Averages	2
Concatenations	3
Filter	Elliptical filter
Coil elements	A32

Contrast - Common

TR	8.6 ms
TE	3.69 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	2
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

Contrast - Dynamic

Multiple series

Resolution - Common		
FoV read	250 mm	
FoV phase	100.0 %	
Slice thickness	5.0 mm	
Base resolution	256	
Phase resolution	100 %	
Phase partial Fourier	Off	
Interpolation	On	

Each measurement

Resolution - iPAT

PAT mode	Mana
IPAI mode	None
1 / 11 111000	140110

Resolution - Filter Image

Image Filter	Off	
Distortion Corr.	Off	
Prescan Normalize	Off	
Normalize	Off	
B1 filter	Off	

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	On

Geometry - Common

Slice group	1
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	8.6 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	3

Geometry - AutoAlign

Slice group	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	Isocenter
Orientation	Transversal

Geometry - AutoAlign

Phase enc. dir.	A >> P
Slice group	3
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	
Initial Position	Isocenter
L	0.0 mm
Р	0.0 mm
Н	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	1
Slice thickness	5.0 mm
Dist. factor	20 %
FoV read	250 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	REF
Table position	F
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

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 - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	8.6 ms
Concatenations	3
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	250 mm
FoV phase	100.0 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	3

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Liver registration	Off
Save original images	On

Inline - MIP

MIP-Sag	Off	
MIP-Cor	Off	
MIP-Tra	Off	
MIP-Time	Off	
Save original images	On	

Inline - Soft Tissue

Wash - In	Off	
Wash - Out	Off	
TTP	Off	
PEI	Off	
MIP - time	Off	
Measurements	1	

Inline - Composing

Inline Composing	Off	
Distortion Corr.	Off	

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	20 deg
Measurements	1
Contrasts	1
TR	8.6 ms
TE	3.69 ms

Sequence - Part 1

Introduction	On	
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SIEMENS MAGNETOM Terra

Sequence - Part 1

Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Flow comp.	No
Multi-slice mode	Sequential
Bandwidth	320 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	Active
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

Sequence - Nuclei

TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	A32

Mode	Off

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\b1map_tra_p2

TA: 0:20 PM: REF Voxel size: 4.0×4.0×1.5 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	50
Dist. factor	100 %
Position	R2.4 A5.4 F1.8 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.5 mm
TR	9450.0 ms
TE	2.38 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast - Common

TR	9450.0 ms
TE	2.38 ms
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.5 mm
Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	16
Reference scan mode	Integrated

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slice group	1
Slices	50
Dist. factor	100 %
Position	R2.4 A5.4 F1.8 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.5 mm
TR	9450.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	R2.4 A5.4 F1.8 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R2.4 A5.4 F1.8
R	2.4 mm
Α	5.4 mm
F	1.8 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

_ 	
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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
--------------	----------

System - Adjustments

B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R2.4 A5.4 F1.8 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	256 mm
R >> L	256 mm
F >> H	149 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off	
MIP-Cor	Off	
MIP-Tra	Off	
MIP-Time	Off	
Save original images	On	

Inline - Composing

Inline Composing	Off
Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	4.7 ms
Bandwidth	490 Hz/Px

Sequence - Part 2

RF pulse type	Fast
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On
Turbo factor	64

Mode	Off	

TA: 4:59 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 0.7 Rel. SNR: 1.00 : WIP_cmp

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	240 mm
FoV phase	94.4 %
Slice thickness	0.83 mm
TR	5000.0 ms
TE	2.89 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR	5000.0 ms
TE	2.89 ms
Magn. preparation	Non-sel. IR
TI 1	900 ms
TI 2	2750 ms
Flip angle 1	4 deg
Flip angle 2	5 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

240 mm
94.4 %
0.83 mm
288
100 %
100 %

Resolution - Common

Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None
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Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	224
FoV read	240 mm
FoV phase	94.4 %
Slice thickness	0.83 mm
TR	5000.0 ms
Multi-slice mode	Single shot
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R2.1 A16.8 H4.0
R	2.1 mm
Α	16.8 mm
Н	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Navigator

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

_ =	
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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Brain
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.0 A2.2 H10.4 mm
! Orientation	Sagittal
! Rotation	30.52 deg
! A >> P	199 mm
! F >> H	139 mm
! R >> L	150 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	5000.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	Non-sel. IR
TI 1	900 ms
TI 2	2750 ms
Fat suppr.	None
Dark blood	Off
FoV read	240 mm
FoV phase	94.4 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

Inline - MIP

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off

Inline - MapIt

Save original images	On
MapIt	None
Flip angle 1	4 deg
Flip angle 2	5 deg
Measurements	1
Contrasts	1
TR	5000.0 ms
TE	2.89 ms

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	6.7 ms
Bandwidth	240 Hz/Px

Sequence - Part 2

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	224

Sequence - Special

On
4.0 x
200
0.50
1.2
External
32
Off
Off
0 Hz
15
0
0.00100
0.00100
On
On
Off

SIEMENS MAGNETOM Terra

Sequence - Special

Synthetic TI 0	0 ms
Synthetic TI 1	0 ms
Denoise Lambda	7
Scaling	-1 10^
Echo Averaging	Off
FID Monitoring	Off

Mode	Off	

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\rsIh_ep3d_vaso_fullbrain_0.8x0.8x 0.9

TA: 20:22 PM: REF Voxel size: 0.8×0.8×0.9 mmPAT: 6 Rel. SNR: 1.00 : d238999c

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	On
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	R2.8 A5.6 H15.6 mm
Orientation	T > C-12.0
Phase enc. dir.	A >> P
AutoAlign	
Slab Scale	-10 %
Slices per slab	114
FoV read	177 mm
FoV phase	109.3 %
Slice thickness	0.90 mm
TR 1	65.2 ms
TR 2	8106 ms
TE 1	22.60 ms
Averages	1
Multi-echo Shots	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	65.2 ms
TR 2	8106 ms
TE 1	22.60 ms
Multi-echo spacing	61.73 ms
Magn. preparation	Non-sel. IR
TI 1	2485.6 ms
TI 2	6202 ms
Flip angle	33 deg
Fat suppr.	None
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	150
Pause after meas.	0.0 s

Resolution - Common

FoV read	177 mm
FoV phase	109.3 %
Slice thickness	0.90 mm
Base resolution	214
Phase resolution	100 %
Slice resolution	100 %

Resolution - Common

Phase partial Fourier	6/8	
Slice partial Fourier	Off	
Interpolation	Off	

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	2
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off
Elliptical filter	Off

Geometry - Common

Slab group	1
Slabs	1
Position	R2.8 A5.6 H15.6 mm
Orientation	T > C-12.0
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	114
FoV read	177 mm
FoV phase	109.3 %
Slice thickness	0.90 mm
TR 1	65.2 ms
TR 2	8106 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	R2.8 A5.6 H15.6 mm
Orientation	T > C-12.0
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R2.8 A5.6 H15.6
R	2.8 mm
A	5.6 mm
Н	15.6 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-12.0
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R2.8 A5.6 H15.6 mm
Orientation	T > C-12.0
Rotation	90.00 deg
R >> L	177 mm
A >> P F >> H	194 mm
F >> H	103 mm
Reset	Off

System - Tx/Rx

-	
Frequency 1H	297.200243 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.05 ms
Bandwidth	1062 Hz/Px

Sequence - Part 2

EPI factor	58
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast

Sequence - Part 2

Excitation	Slab-sel.
RF spoiling	On
Turbo factor	57

Sequence - Special

PATRef FA	12 deg
RF duration	1680 us
RF BWT product	25
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
CHECK FLIP ANGLE!	On
Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
Water Exc.	-none-
External PC	per Series
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	Off
Inversion Delay	650 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4

Mode	Off

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\rslh_ep3d_vaso_task

TA: 0:42 PM: REF Voxel size: 0.8×0.8×0.9 mmPAT: 3 Rel. SNR: 1.00 : d238999c

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further	Off
preparation	
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
AutoAlign	
Slab Scale	-10 %
Slices per slab	24
FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
TR 1	52.6 ms
TR 2	3634 ms
TE 1	18.30 ms
Averages	1
Multi-echo Shots	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	52.6 ms
TR 2	3634 ms
TE 1	18.30 ms
Multi-echo spacing	48.36 ms
Magn. preparation	Non-sel. IR
TI 1	1291.2 ms
TI 2	2553.6 ms
Flip angle	60 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	10
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s
Pause after meas. 4	0.0 s
Pause after meas. 5	0.0 s
Pause after meas. 6	0.0 s
Pause after meas. 7	0.0 s
Pause after meas. 8	0.0 s
Pause after meas. 9	0.0 s

Resolution - Common

FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
Base resolution	184
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	16
CAIPI 3D Shift	0
Reference Scan Mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Slab group	1
Slabs	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
TR 1	52.6 ms
TR 2	3634 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R6.7 P14.5 H49.4
R	6.7 mm
P	14.5 mm
Н	49.4 mm

Geometry - AutoAlign

Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-17.7
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Rotation	0.00 deg
A >> P	144 mm
R >> L	150 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

•	
Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.08 ms
Bandwidth	1046 Hz/Px

Sequence - Part 2

EPI factor	44
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	2540 us
RF BWT product	15
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	Off
Inversion Delay	650 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4

Mode	Off

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\rslh_ep3d_vaso_task

TA: 5:00 PM: REF Voxel size: 0.8×0.8×0.9 mmPAT: 3 Rel. SNR: 1.00 : d238999c

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
AutoAlign	
Slab Scale	-10 %
Slices per slab	24
FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
TR 1	52.6 ms
TR 2	3634 ms
TE 1	18.30 ms
Averages	1
Multi-echo Shots	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

TR 1	52.6 ms
TR 2	3634 ms
TE 1	18.30 ms
Multi-echo spacing	48.36 ms
Magn. preparation	Non-sel. IR
TI 1	1291.2 ms
TI 2	2553.6 ms
Flip angle	60 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	81
Pause after meas.	0.0 s

Resolution - Common

FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
Base resolution	184
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8

Resolution - Common

Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	3
Ref. lines PE	45
Acc. factor 3D	1
Ref. lines 3D	16
CAIPI 3D Shift	0
Reference Scan Mode	GRE/separate
CAIPIRINHA mode	Free

Resolution - Filter Image

Image Filter	Off	
Distortion Corr.	On	
Mode	3D	
Unfiltered images	Off	
Prescan Normalize	Off	
Normalize	Off	
B1 filter	Off	

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

Coomony Common	
Slab group	1
Slabs	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	150 mm
FoV phase	95.7 %
Slice thickness	0.90 mm
TR 1	52.6 ms
TR 2	3634 ms
Multi-slice mode	Interleaved
Series	Ascending
Multi-echo Shots	1

Geometry - AutoAlign

Slab group	1
Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R6.7 P14.5 H49.4
R	6.7 mm
P	14.5 mm
Н	49.4 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-17.7
> S	0.0

Geometry - Saturation

Saturation mode Standard

Geometry - Saturation

Fat suppr.	Fat sat.

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

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
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

Position	R6.7 P14.5 H49.4 mm
Orientation	T > C-17.7
Rotation	0.00 deg
A >> P	144 mm
R >> L	150 mm
F >> H	22 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	1.08 ms
Bandwidth	1046 Hz/Px

Sequence - Part 2

EPI factor	44
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.

Sequence - Part 2

RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	2540 us
RF BWT product	15
Ernst T1	2500 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	Off
Inversion Delay	650 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4

Mode	Off	

\\USER\Development\Dr. Vachon-Presseau\vaso-test-2022-12-08\CR_tfl_MTboost

TA: 8:37 PM: FIX Voxel size: 0.8×0.8×0.8 mmPAT: 2 Rel. SNR: 1.00 : tfl

Properties

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	240 mm
FoV phase	93.8 %
Slice thickness	0.83 mm
TR	200.0 ms
TE	2.89 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast - Common

200.0 ms
2.89 ms
None
5.0 deg
None
None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	240 mm
FoV phase	93.8 %
Slice thickness	0.83 mm
Base resolution	288
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	32
Accel. factor 3D	1
Reference scan mode	Integrated

Resolution - Filter Image

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off

Resolution - Filter Rawdata

Raw filter	Off	
Elliptical filter	Off	

Geometry - Common

•	
Slab group	1
Slabs	1
Dist. factor	50 %
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	224
FoV read	240 mm
FoV phase	93.8 %
Slice thickness	0.83 mm
TR	200.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	R2.1 A16.8 H4.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	
Initial Position	R2.1 A16.8 H4.0
R	2.1 mm
Α	16.8 mm
Н	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Navigator

Geometry - Tim Planning Suite

Set-n-Go Protocol	Off
Table position	Н
Table position	0 mm
Inline Composing	Off

System - Miscellaneous

Positioning mode	FIX
Table position	Н

System - Miscellaneous

Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L0.0 A12.0 F0.9 mm
! Orientation	Transversal
! Rotation	0.00 deg
! A >> P	205 mm
! R >> L	350 mm
! F >> H	163 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.200243 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

Physio - Signal1

1st Signal/Mode	None
TR	200.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	240 mm
FoV phase	93.8 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

Inline - Common

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
Save original images	On

Inline - Composing

Inline Composing	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off

Inline - MapIt

Save original images	On
MapIt	None
Flip angle	5.0 deg
Measurements	1
TR	200.0 ms
TE	2.89 ms

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	On
Reordering	Radial
Asymmetric echo	Off
Flow comp.	No
Multi-slice mode	Sequential
Echo spacing	7.3 ms
Bandwidth	240 Hz/Px

Sequence - Part 2

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	On
Turbo factor	14

Sequence - Nuclei

TX/RX Nucleus	1H
TX/RX delta frequency	0 Hz
TX Nucleus	None
TX delta frequency	0 Hz
Coil elements	A32

Sequence - Special

<u>-</u>	
MTC	On
Use Dual Freqency Prep?	Off
Pulse Shape	Gaussian
Pulse Number	3
Each RF Duration	12.032 ms
Gap Between Each ihMT RF	0.50 ms
Freq Offset	-4000 Hz
MTC Freq Center Offset	-100 Hz
B1 RMS of ihMT RF	2.60 uT
Switch Freq After	1 Pulse(s)
Boosted Saturation?	Off
TR of Boost RF Train?	80 ms
Boost Factor	1
Prep Scan Time	60 sec

Mode	Off	
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