\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_ep3d_vasonih5p_oblique_matched

TA: 9:44 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	77.9 ms
TR 2	141403 ms
TE 1	26.30 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	77.9 ms
TR 2	141403 ms
TE 1	26.30 ms
Multi-echo spacing	69.4 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1378.5 ms
TI 2	3793.4 ms
Flip angle	10 deg
Fat suppr.	None
Magn. Prep. Shots	28

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	4
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s

Resolution - Common

FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
Base resolution	232
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	77.9 ms
TR 2	141403 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P3.9 F9.5
L	0.0 mm
P	3.9 mm
F	9.5 mm
Initial Rotation	31.70 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

Positioning mode	REF

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 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
Contrasts	1
Echo spacing	4.89 ms
Bandwidth	214 Hz/Px

Sequence - Part 2

EPI factor	14
Segmentation	14
RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
Turbo factor	31

Sequence - Special

PATRef FA	3 deg
RF duration	340 us
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1
Invert PE	Off
Min. TE if PF	On

Sequence - Special

Echo Time Shift	On
Ramp Sampling	Off
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	On
Invert RO	Off
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	Binomial-11
External PC	per Series
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	200 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	7
MAGEC FA ratio	118
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_VASO_V1_stimulation_REF 270_FA25

TA: 14:02 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Multi-echo spacing	64 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1354.8 ms
TI 2	3044.4 ms
Flip angle	25 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	190
Pause after meas.	0.0 s

Resolution - Common

FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
Base resolution	248
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P13.2 H18.7
L	0.0 mm
P	13.2 mm
H	18.7 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-31.7
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	270.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Echo spacing	1.05 ms
Bandwidth	1062 Hz/Px

Sequence - Part 2

EPI factor	60
Segmentation	3
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	3500 us
RF BWT product	15
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1

Sequence - Special

Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	Off
Invert RO	Off
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	500 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4
MAGEC FA ratio	136
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\head_b1_250V

TA: 0:18 PM: REF Voxel size: 4.0×4.0×3.0 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

Slice group	1
Slices	50
Dist. factor	33 %
Position	L2.3 A7.0 F9.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	8500.0 ms
TE	1.92 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast - Common

TR	8500.0 ms
TE	1.92 ms
Magn. preparation	None
Flip angle	5 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	3.0 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	33 %
Position	L2.3 A7.0 F9.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	8500.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L2.3 A7.0 F9.4 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L2.3 A7.0 F9.4
L	2.3 mm
A	7.0 mm
F	9.4 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

System - Miscellaneous

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
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	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	297.184726 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	250.000 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

Distortion Corr.	Off

Sequence - Part 1

Introduction	Off
Dimension	2D
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Interleaved
Echo spacing	4.2 ms
Bandwidth	440 Hz/Px

Sequence - Part 2

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

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_VASO_V1_stimulation_REF 270_FA25_RO2

TA: 14:02 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P19.1 H22.6 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Multi-echo spacing	64 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1354.8 ms
TI 2	3044.4 ms
Flip angle	25 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	190
Pause after meas.	0.0 s

Resolution - Common

FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
Base resolution	248
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P19.1 H22.6 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P19.1 H22.6 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P19.1 H22.6
L	0.0 mm
P	19.1 mm
H	22.6 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-31.7
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	270.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Echo spacing	1.05 ms
Bandwidth	1062 Hz/Px

Sequence - Part 2

EPI factor	60
Segmentation	3
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	3500 us
RF BWT product	15
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1

Sequence - Special

Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	Off
Invert RO	On
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	500 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4
MAGEC FA ratio	136
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_ep3d_vasonih5p_oblique

TA: 3:03 PM: FIX Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	23.2 ms
TR 2	43359 ms
TE 1	7.96 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	23.2 ms
TR 2	43359 ms
TE 1	7.96 ms
Multi-echo spacing	18.1 ms
Magn. preparation	Non-sel. HSN IR
TI 1	929.2 ms
TI 2	2367.6 ms
Flip angle	10 deg
Fat suppr.	None
Magn. Prep. Shots	14

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	4
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s

Resolution - Common

FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
Base resolution	232
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	23.2 ms
TR 2	43359 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P3.9 F9.5
L	0.0 mm
P	3.9 mm
F	9.5 mm
Initial Rotation	31.70 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T

System - Miscellaneous

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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 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
Contrasts	1
Echo spacing	1.23 ms
Bandwidth	980 Hz/Px

Sequence - Part 2

EPI factor	14
Segmentation	14
RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
Turbo factor	62

Sequence - Special

PATRef FA	3 deg
RF duration	340 us
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1
Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off

Sequence - Special

SVDPC	On
Sym VASO	Off
Dual-pol. EPI	On
Invert RO	Off
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	Binomial-11
External PC	per Series
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	200 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	7
MAGEC FA ratio	118
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_VASO_V1_stimulation_REF 270_FA25

TA: 14:02 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Multi-echo spacing	64 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1354.8 ms
TI 2	3044.4 ms
Flip angle	25 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	190
Pause after meas.	0.0 s

Resolution - Common

FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
Base resolution	248
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P13.2 H18.7
L	0.0 mm
P	13.2 mm
H	18.7 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-31.7
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	270.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Echo spacing	1.05 ms
Bandwidth	1062 Hz/Px

Sequence - Part 2

EPI factor	60
Segmentation	3
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	3500 us
RF BWT product	15
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1

Sequence - Special

Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	Off
Invert RO	Off
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	500 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4
MAGEC FA ratio	136
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_ep3d_vasonih5p_oblique_PA

TA: 3:03 PM: FIX Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	P >> A
AutoAlign	---
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	23.2 ms
TR 2	43359 ms
TE 1	7.96 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	23.2 ms
TR 2	43359 ms
TE 1	7.96 ms
Multi-echo spacing	18.1 ms
Magn. preparation	Non-sel. HSN IR
TI 1	929.2 ms
TI 2	2367.6 ms
Flip angle	10 deg
Fat suppr.	None
Magn. Prep. Shots	14

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	4
Pause after meas. 1	0.0 s
Pause after meas. 2	0.0 s
Pause after meas. 3	0.0 s

Resolution - Common

FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
Base resolution	232
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	P >> A
Slices per slab	186
FoV read	190 mm
FoV phase	108.6 %
Slice thickness	0.82 mm
TR 1	23.2 ms
TR 2	43359 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P3.9 F9.5 mm
Orientation	Sagittal
Phase enc. dir.	P >> A
AutoAlign	---
Initial Position	L0.0 P3.9 F9.5
L	0.0 mm
P	3.9 mm
F	9.5 mm
Initial Rotation	-148.30 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

Positioning mode	FIX

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 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
Contrasts	1
Echo spacing	1.23 ms
Bandwidth	980 Hz/Px

Sequence - Part 2

EPI factor	14
Segmentation	14
RF pulse type	Normal
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On
Turbo factor	62

Sequence - Special

PATRef FA	3 deg
RF duration	340 us
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1
Invert PE	Off
Min. TE if PF	On

Sequence - Special

Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	On
Invert RO	Off
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	Binomial-11
External PC	per Series
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	200 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	7
MAGEC FA ratio	118
spoiler scale	1

Sequence - Assistant

Mode	Off

\\USER\FMRIF\[XT-ID:00-K-0023]Kenny\4_9_2024_AVAMAN_actual\rslh_VASO_V1_stimulation_REF 270_FA25_RO2

TA: 14:02 PM: REF Voxel size: 0.8×0.8×0.8 mmPAT: 3 Rel. SNR: 1.00 : nih5p

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	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Averages	1
Filter	None
Coil elements	A32

Contrast - Common

TR 1	70.4 ms
TR 2	4336 ms
TE 1	24.70 ms
Multi-echo spacing	64 ms
Magn. preparation	Non-sel. HSN IR
TI 1	1354.8 ms
TI 2	3044.4 ms
Flip angle	25 deg
Fat suppr.	Fat sat.
Magn. Prep. Shots	1

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	190
Pause after meas.	0.0 s

Resolution - Common

FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
Base resolution	248
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	1
Ref. lines PE	48
Acc. factor 3D	3
Ref. lines 3D	24
CAIPI 3D Shift	1
Reference Scan Mode	GRE/dual-polar
CAIPI Mode (tooltip)	Skipped-CAIPI
Total PAT factor	3

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

Slab group	1
Slabs	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
Slab Scale	-10 %
Slices per slab	24
FoV read	186 mm
FoV phase	96.8 %
Slice thickness	0.75 mm
TR 1	70.4 ms
TR 2	4336 ms

Geometry - AutoAlign

Slab group	1
Position	L0.0 P13.2 H18.7 mm
Orientation	T > C-31.7
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P13.2 H18.7
L	0.0 mm
P	13.2 mm
H	18.7 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-31.7
> S	0.0

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	Fat sat.

System - Miscellaneous

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
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 P11.4 H26.1 mm
! Orientation	Sagittal
! Rotation	121.22 deg
! F >> H	52 mm
! A >> P	207 mm
! R >> L	153 mm
Reset	Off

System - Tx/Rx

Frequency 1H	297.184726 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	270.000 V

Sequence - Part 1

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Echo spacing	1.05 ms
Bandwidth	1062 Hz/Px

Sequence - Part 2

EPI factor	60
Segmentation	3
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slab-sel.
RF spoiling	On
Turbo factor	24

Sequence - Special

PATRef FA	3 deg
RF duration	3500 us
RF BWT product	15
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1

Sequence - Special

Invert PE	Off
Min. TE if PF	On
Echo Time Shift	On
Ramp Sampling	On
NORDIC	Off
SVDPC	On
Sym VASO	Off
Dual-pol. EPI	Off
Invert RO	On
Invert 3D	Off
Disable PF reco	Off
Disable PF reco	Off
Save sampling	Off
PE VComp	Off
Water Exc.	-none-
External PC	per Series
Saturation RF	per Shot
FIDNavs	-none-
EPI rise time factor	1.10
Mosaic DICOMs	On
Modify Ice Config	On
G-factor map	Off
GRAPPA Regularization	50000 10^-6
HSN RF power scale	3.00
Inversion Delay	500 ms
Relaxation Delay	0 ms
Var. FA /MAGEC	4
MAGEC FA ratio	136
spoiler scale	1

Sequence - Assistant

Mode	Off