

\\MARTINOS DEVELOPER\HUBER\highres\_mesoveins\_andTOF\20251218\_ALL\_MESOVEIN\tof\_al\_la\_Des

TA: 7:34 min Coil Selection: Manual Voxel Size: 0.4x0.4x0.4 mm<sup>3</sup> Acc:: 7.2 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
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	8
Distance Factor	-19 %
Position	R0.2 A12.1 F8.9 mm
Orientation	T > C-31.0
Phase Encoding Dir.	R >> L
Slices per Slab	48
Phase Oversampling	0 %
Slice Oversampling	16.7 %
FOV Read	205 mm
FOV Phase	90.6 %
Slice Thickness	0.40 mm
TR	96.99 ms
TE	4.71 ms
Averages	1
Concatenations	8
AutoAlign	---
Coil Elements	AC

**Contrast - Common**

TR	96.99 ms
TE	4.71 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	25 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
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**Contrast - Dynamic**

Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

**Contrast - Angio**

Flow Direction	F >> H
TONE Ramp	60 %

**Resolution - Common**

FOV Read	205 mm
FOV Phase	90.6 %
Slice Thickness	0.40 mm
Base Resolution	512
Phase Resolution	100 %
Slice Resolution	100 %
Trajectory	Cartesian
Interpolation	1.00

**Resolution - Acceleration**

Acceleration Mode	CS
Total Factor	7.2
Reference Scans	GRE/Separate
Reference Lines PE	33
Reference Lines 3D	24
Deep Resolve	Off
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Weak
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	On
Elliptical Filter	Off
POCS	Off
Distortion Correction	3D
Normalize	B1 Filter
Image Filter	On

**Geometry - Common**

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Slabs	8
Distance Factor	-19 %
Position	R0.2 A12.1 F8.9 mm
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Phase Encoding Dir.	R >> L
Slices per Slab	48
Phase Oversampling	0 %
Slice Oversampling	16.7 %
FOV Read	205 mm
FOV Phase	90.6 %

**Geometry - Common**

Slice Thickness	0.40 mm
TR	96.99 ms
Multi-Slice Mode	Sequential
Series	Descending
Concatenations	8

**Geometry - AutoAlign**

Slab Group	1
Position	R0.2 A12.1 F8.9 mm
Orientation	T > C-31.0
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	R0.2 A12.1 F8.9
R	0.2 mm
A	12.1 mm
F	8.9 mm
Initial Orientation	T > C
T > C	-31.00
> S	0.00
Initial Rotation	90.00 deg

**Geometry - Navigator****Geometry - Saturation**

Special Saturation	Tracking H
Gap	20.00 mm
Thickness	40.00 mm

**Geometry - Tim Planning Suite**

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

**System - Miscellaneous**

Coil Selection	Manual
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Brain
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

! Position	L1.6 A19.4 F5.0 mm
! Orientation	T > C-31.8 > S0.7

**System - Adjust Volume**

! Rotation	90.37 deg
! R >> L	123 mm
! A >> P	163 mm
! F >> H	87 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	TONE

**System - Tx/Rx**

Frequency 1H	297.117813 MHz
! Ref. Amplitude 1H	400.000 V
Reset	Off
Correction Factor	1.00
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	96.99 ms
Segments	7
Concatenations	8

**Physio - Cardiac**

Tagging	None
Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	205 mm
FOV Phase	90.6 %
Phase Resolution	100 %
Cine	Off
Trajectory	Cartesian
Dummy Heartbeats	1

**Physio - PACE**

Resp. Control	Off
Concatenations	8

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - Cardiac**

Inline Evaluation	Off
Magn. Preparation	None
Save Original Images	On
Contrasts	1
TE	4.71 ms
TR	96.99 ms

**Inline - MIP**

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

**Inline - Composing****Sequence - Part 1**

Sequence Name	fl_r
Dimension	3D
Sequence Type	Gre
Excitation	TONE
RF Pulse Type	Low SAR
Gradient Mode	Fast*
Flow Compensation	Slice/Read
Reordering	Linear
Bandwidth	119 Hz/Px
Echo Spacing	12.42 ms
Asymmetric Echo	Weak
Optimization	None
Define	Segments
Segments	7

**Sequence - Part 2**

Introduction	On
RF Spoiling	On
Phase Enc. Rewinder	On

**Sequence - Assistant**

SAR Assistant	Off
Allowed Delay	0 s
Optimization	None