SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_ref_test

TA: 0:48 PAT: 3 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	9623.30 ms
TE	25 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	45
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.06 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	77 ms
EFFECTIVE TR	1154796 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	Off

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G6_C3_test

TA: 0:31 PAT: 6 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6239.20 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	6
Ref. lines PE	90
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.1 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	48 ms
EFFECTIVE TR	748704 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	3

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G6_C2_test

TA: 0:31 PAT: 6 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6239.20 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	6
Ref. lines PE	90
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.1 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	48 ms
EFFECTIVE TR	748704 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	2

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G8_C2_test

TA: 0:31 PAT: 8 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6239.20 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100.0 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	8
Ref. lines PE	96
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	44 ms
EFFECTIVE TR	748704 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	2

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G8_C4_test

TA: 0:31 PAT: 8 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6239.20 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100.0 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	8
Ref. lines PE	96
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	44 ms
EFFECTIVE TR	748704 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G9_C3_PF_test

TA: 0:26 PAT: 9 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	5102.90 ms
TE	13 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	9
Ref. lines PE	108
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	150.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	130
MAGEC FA	9 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	39 ms
EFFECTIVE TR	459261 ms
PatPartitions	90
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	3

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G9_C3_test

TA: 0:26 PAT: 9 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	5102.90 ms
TE	13 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	5
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	9
Ref. lines PE	108
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	150.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	130
MAGEC FA	9 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	39 ms
EFFECTIVE TR	612348 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	3

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G3_tapping

TA: 16:12 PAT: 3 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	9623.30 ms
TE	25 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	101
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	45
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.06 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	77 ms
EFFECTIVE TR	1154796 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	Off

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_ref_G6_C2_tapping

TA: 16:42 PAT: 6 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6221.30 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	161
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	6
Ref. lines PE	90
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	On
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.1 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	48 ms
EFFECTIVE TR	715884 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	2

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G9_C3_tapping

TA: 17:57 PAT: 9 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	5102.90 ms
TE	13 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	211
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	9
Ref. lines PE	108
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	190.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	130
MAGEC FA	9 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	39 ms
EFFECTIVE TR	581676 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	3

\\USER\RenzoHuber\Anna_trt\20210412_DEN\VASO_151_G8_C4_tapping

TA: 17:47 PAT: 8 Voxel size: 0.8×0.8×0.9 mm Rel. SNR: 1.00 USER: VASO_151

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Start measurement without further preparation	On
Wait for user to start	Off
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L2.3 A24.2 H3.5
Orientation	T > C-11.9
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	120
FoV read	138.7 mm
FoV phase	132.9 %
Slice thickness	0.89 mm
TR	6239.20 ms
TE	16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

Perfusion mode	SS-SI VASO
TI2	100 ms
TI1	50 ms
TI1s	50 ms
Flip angle	4 deg
Fat suppr.	Fat sat.
Fat sat. mode	Strong
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	171
Delay in TR	0 ms
Multiple series	Off
Perfusion mode	PICORE Q2T
Inversion time 1	50 ms
Saturation stop time	50 ms
Inversion time 2	100.0 ms
Flow limit	100.0 cm/s

Resolution

Base resolution	170
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	8
Ref. lines PE	96
Accel. factor 3D	1
Ref. lines 3D	24
Reference scan mode	Separate
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Ascending
Special sat.	Parallel F
Gap	25.0 mm
Thickness	100 mm
Table position	H
Table position	0 mm
Inline Composing	Off

System

V32	Off
A32	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Save uncombined	Off
Coil Combine Mode	Sum of Squares
AutoAlign	Head > Brain
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
! Ref. amplitude 1H	225.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.8 A28.1 F0.8
! Orientation	T > C-7.3
! Rotation	90.00 deg
! A >> P	174 mm
! R >> L	130 mm
! F >> H	107 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	On
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	1050 Hz/Px
Free echo spacing	Off
Echo spacing	1.12 ms
EPI factor	226

RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Ampl	110
MAGEC FA	10 in deg
ph.skip 4 Robert (the one)	1
MAGEC SS-SI?	On
Maxwell Correction	Off
log physio files	On
FFT scale	2.00
dummy prepscan time	3 s
z shim	0.00 mT/m*ms
RF duration	1200 us
RF BWTP	25.0
Renzo: Delta TI	44 ms
EFFECTIVE TR	748704 ms
PatPartitions	120
EPI phase correction	local
PAT refscan mode	Flash
FlashRef BaseRes	170
FlashRef BW	100 Hz/px
FlashRef TE	7000 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

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