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\\USER\Test\96-ch\exvivo_20210504\localizer

TA: 0:27 PM: FIX Voxel size: 0.5×0.5×3.0 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 preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

Routine

Slice group	1
Slices	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	10.0 ms
TE	3.00 ms
Averages	1
Concatenations	15
Filter	Elliptical filter
Coil elements	R96

Contrast - Common

TR	10.0 ms
TE	3.00 ms
TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

Contrast - Dynamic

Multiple series	Each measurement
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Resolution - Common

FoV read	280 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
Base resolution	256
Phase resolution	90 %
Phase partial Fourier	6/8
Interpolation	On

Resolution - iPAT

PAT mode	None
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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	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Slices	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Transversal
Phase enc. dir.	A >> P
Slice group	3
Slices	5
Dist. factor	200 %
Position	L0.7 P62.1 F22.9 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	280 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	10.0 ms
Multi-slice mode	Sequential
Series	Interleaved
Concatenations	15

Geometry - AutoAlign

Slice group	1
Position	L0.7 P62.1 F22.9 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice group	2
Position	L0.7 P62.1 F22.9 mm
Orientation	Transversal

Geometry - AutoAlign

Phase enc. dir.	A >> P
Slice group	3
Position	L0.7 P62.1 F22.9 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L0.7 P62.1 F22.9
L	0.7 mm
P	62.1 mm
F	22.9 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	H
Table position	0 mm
Inline Composing	Off

Geometry - Tim CT

Tim CT mode	Off
Slices	5
Slice thickness	3.0 mm
Dist. factor	200 %
FoV read	280 mm
FoV phase	100.0 %
Segments	1

System - Miscellaneous

Positioning mode	FIX
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 - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Slice-sel.

System - Tx/Rx

Frequency 1H	297.211163 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	10.0 ms
Concatenations	15
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	280 mm
FoV phase	100.0 %
Phase resolution	90 %

Physio - PACE

Resp. control	Off
Concatenations	15

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	10 deg
Measurements	1
Contrasts	1
TR	10.0 ms

Inline - MapIt

TE	3.00 ms
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Sequence - Part 1

Introduction	On
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 - Assistant

Mode	Off
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\\USER\Test\96-ch\exvivo_20210504\tfl_b1map_350V_vol_selective

TA: 7.4 s PM: REF Voxel size: 3.1×3.1×8.0 mmPAT: Off 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	10
Dist. factor	100 %
Position	L6.1 P35.5 F31.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	Head > Basis
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	3140.0 ms
TE	1.78 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	R96

Contrast - Common

TR	3140.0 ms
TE	1.78 ms
Magn. preparation	None
Flip angle	8 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	1
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
Base resolution	64
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	None
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Resolution - Filter Image

Image Filter	Off
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Resolution - Filter Image

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	10
Dist. factor	100 %
Position	L6.1 P35.5 F31.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	8.0 mm
TR	3140.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L6.1 P35.5 F31.0 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	Head > Basis
Initial Position	L6.1 P35.5 F31.0
L	6.1 mm
P	35.5 mm
F	31.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

Geometry - Tim Planning Suite

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

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	Head > Basis
Coil Select Mode	Default

System - Adjustments

B0 Shim mode	Standard
B1 Shim mode	Volume-selective

System - Adjustments

Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

System - Adjust Volume

! Position	L8.1 P28.3 F30.4 mm
! Orientation	Coronal
! Rotation	0.00 deg
! R >> L	200 mm
! F >> H	200 mm
! A >> P	120 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Volume-selective
Excitation	Slice-sel.
pTx Volume	1
Vol. Property	B1 Shim Vol.
Position	L4.0 P27.7 F28.3 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	129 mm
F >> H	149 mm
A >> P	119 mm
Vol. Visibility	On

System - Tx/Rx

Frequency 1H	297.211163 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	350.380 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	4.9 ms
Bandwidth	490 Hz/Px

Sequence - Part 2

RF pulse type	Low SAR
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Sequence - Part 2

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

Sequence - Assistant

Mode	Off
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\\USER\Test\96-ch\exvivo_20210504\t1_mp2rage_sag_ipat5_0.5mm_Tl284_noFS_TR2800_volumeSe IB1_350V
TA: 20:11 PM: REF Voxel size: 0.5×0.5×0.5 mmPAT: 5 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	L8.1 P28.3 F30.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	Head > Basis
Phase oversampling	0 %
Slice oversampling	6.7 %
Slices per slab	240
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	2800.0 ms
TE	1.59 ms
Averages	4
Concatenations	1
Filter	None
Coil elements	R96

Contrast - Common

TR	2800.0 ms
TE	1.59 ms
Magn. preparation	Non-sel. IR
TI 1	284 ms
TI 2	2000 ms
Flip angle 1	4.0 deg
Flip angle 2	4.0 deg
Fat suppr.	None
Water suppr.	None

Contrast - Dynamic

Averages	4
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
Base resolution	400
Phase resolution	100 %
Slice resolution	100 %

Resolution - Common

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

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	5
Ref. lines PE	36
Accel. factor 3D	1
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

Slab group	1
Slabs	1
Dist. factor	50 %
Position	L8.1 P28.3 F30.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
Slice oversampling	6.7 %
Slices per slab	240
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	2800.0 ms
Multi-slice mode	Single shot
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L8.1 P28.3 F30.4 mm
Orientation	Coronal
Phase enc. dir.	R >> L
AutoAlign	Head > Basis
Initial Position	L8.1 P28.3 F30.4
L	8.1 mm
P	28.3 mm
F	30.4 mm
Initial Rotation	0.00 deg
Initial Orientation	Coronal

Geometry - Navigator**Geometry - Tim Planning Suite**

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

Geometry - Tim Planning Suite

Inline Composing	Off
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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	Head > Basis
Coil Select Mode	Default

System - Adjustments

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

System - Adjust Volume

Position	L8.1 P28.3 F30.4 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	200 mm
F >> H	200 mm
A >> P	120 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Volume-selective
Excitation	Non-sel.
pTx Volume	1
Vol. Property	B1 Shim Vol.
Position	L4.0 P27.7 F28.3 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	129 mm
F >> H	149 mm
A >> P	119 mm
Vol. Visibility	On

System - Tx/Rx

Frequency 1H	297.211163 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
! Ref. amplitude 1H	350.380 V

Physio - Signal1

1st Signal/Mode	None
TR	2800.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	Non-sel. IR
TI 1	284 ms
TI 2	2000 ms

Physio - Cardiac

Fat suppr.	None
Dark blood	Off
FoV read	200 mm
FoV phase	100.0 %
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.	Off

Inline - MapIt

Save original images	On
MapIt	None
Flip angle 1	4.0 deg
Flip angle 2	4.0 deg
Measurements	1
TR	2800.0 ms
TE	1.59 ms

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	Off
Reordering	Linear
Asymmetric echo	Allowed
Flow comp.	No
Multi-slice mode	Single shot
Echo spacing	4.1 ms
Bandwidth	960 Hz/Px

Sequence - Part 2

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	192

Sequence - Assistant

Mode	Off
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\\USER\Test\96-ch\exvivo_20210504\t2_ME5_pt5_ipat5

TA: 14:46 PM: FIX Voxel size: 0.5×0.5×0.5 mmPAT: 5 Rel. SNR: 1.00 : fl_r

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	20 %
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Basis
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	384
FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
TR	29.0 ms
TE 1	4.84 ms
TE 2	9.92 ms
TE 3	15.00 ms
TE 4	20.08 ms
TE 5	25.16 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	R96

Contrast - Common

TR	29.0 ms
TE 1	4.84 ms
TE 2	9.92 ms
TE 3	15.00 ms
TE 4	20.08 ms
TE 5	25.16 ms
MTC	Off
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
Base resolution	440
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	5
Ref. lines PE	48
Accel. factor 3D	1
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

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	384
FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
TR	29.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Basis
Initial Position	L5.7 P28.7 F24.7
L	5.7 mm
P	28.7 mm
F	24.7 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
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Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Special sat.	None

Geometry - Tim Planning Suite

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

Geometry - Tim CT

Tim CT mode	Off
Slabs	1
Slices per slab	384
Slice thickness	0.50 mm
Dist. factor	20 %
FoV read	220 mm
FoV phase	59.1 %
Segments	1

System - Miscellaneous

Positioning mode	FIX
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	Head > Basis
Coil Select Mode	Off - AutoCoilSelect

System - Adjustments

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

System - Adjust Volume

! Position	L8.1 P28.3 F30.4 mm
! Orientation	Coronal
! Rotation	0.00 deg
! R >> L	200 mm
! F >> H	200 mm
! A >> P	120 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Volume-selective
Excitation	Non-sel.
pTx Volume	1
Vol. Property	B1 Shim Vol.
Position	L4.0 P27.7 F28.3 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	129 mm
F >> H	149 mm
A >> P	119 mm
Vol. Visibility	On

System - Tx/Rx

Frequency 1H	297.211163 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	29.0 ms
Concatenations	1
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	220 mm
FoV phase	59.1 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

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	10 deg
Measurements	1
Contrasts	5
TR	29.0 ms
TE 1	4.84 ms
TE 2	9.92 ms
TE 3	15.00 ms
TE 4	20.08 ms

Inline - MapIt

TE 5	25.16 ms
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Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	5
Flow comp. 1	Yes
Readout mode	Bipolar
Multi-slice mode	Interleaved
Bandwidth 1	200 Hz/Px
Bandwidth 2	200 Hz/Px
Bandwidth 3	200 Hz/Px
Bandwidth 4	200 Hz/Px
Bandwidth 5	200 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off
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\\USER\Test\96-ch\exvivo_20210504\fast_tse

TA: 9:11 PM: FIX Voxel size: 0.3×0.3×2.0 mmPAT: 4 Rel. SNR: 1.00 : fse

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	60
Dist. factor	10 %
Position	L3.4 P29.9 F31.9 mm
Orientation	C > T-1.4
Phase enc. dir.	R >> L
AutoAlign	---
Phase oversampling	0 %
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	3000.0 ms
TE	11.0 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	R96

Contrast - Common

TR	3000.0 ms
TE	11.0 ms
MTC	Off
Magn. preparation	None
Flip angle	90 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off

Contrast - Dynamic

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

Resolution - Common

FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	656
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off

Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	4
Ref. lines PE	24
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	60
Dist. factor	10 %
Position	L3.4 P29.9 F31.9 mm
Orientation	C > T-1.4
Phase enc. dir.	R >> L
FoV read	200 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	3000.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slice group	1
Position	L3.4 P29.9 F31.9 mm
Orientation	C > T-1.4
Phase enc. dir.	R >> L
AutoAlign	---
Initial Position	L3.4 P29.9 F31.9
L	3.4 mm
P	29.9 mm
F	31.9 mm
Initial Rotation	0.00 deg
Initial Orientation	C > T
C > T	-1.4
> S	0.0

Geometry - Saturation

Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Special sat.	None

Geometry - Navigator**Geometry - Tim Planning Suite**

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

Geometry - Tim CT

Tim CT mode	Off
Slices	60
Slice thickness	2.0 mm
Dist. factor	10 %
FoV read	200 mm
FoV phase	100.0 %

System - Miscellaneous

Positioning mode	FIX
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	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	L3.4 P29.9 F31.9 mm
Orientation	C > T-1.4
Rotation	0.00 deg
R >> L	200 mm
F >> H	200 mm
A >> P	132 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
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System - Tx/Rx

Frequency 1H	297.211163 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	3000.0 ms
Concatenations	1

Physio - Cardiac

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	200 mm
FoV phase	100.0 %
Phase resolution	100 %
Trajectory	Cartesian

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.	Off

Sequence - Part 1

Introduction	On
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	1
Flow comp.	No
Optimization	In phase
Multi-slice mode	Interleaved
Echo spacing	0 ms
Bandwidth	129 Hz/Px

Sequence - Part 2

Define	Turbo factor
Echo trains per slice	182
Phase correction	Automatic
RF pulse type	Normal
Gradient mode	Fast
Hyperecho	Off
Turbo factor	1

Sequence - Assistant

Mode	Off
Allowed delay	0 s

\\USER\Test\96-ch\exvivo_20210504\t2_swi_pt5_ipat5_bw200

TA: 11:05 PM: FIX Voxel size: 0.5×0.5×0.5 mmPAT: 5 Rel. SNR: 1.00 : swi_r

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	20 %
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Basis
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	288
FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
TR	29.0 ms
TE	16.00 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	R96

Contrast - Common

TR	29.0 ms
TE	16.00 ms
MTC	Off
Magn. preparation	None
Flip angle	10 deg
Fat suppr.	None
Water suppr.	None
SWI	On

Contrast - Dynamic

Averages	1
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution - Common

FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
Base resolution	440
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off

Resolution - Common

Interpolation	Off
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Resolution - iPAT

PAT mode	GRAPPA
Accel. factor PE	5
Ref. lines PE	48
Accel. factor 3D	1
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

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	288
FoV read	220 mm
FoV phase	59.1 %
Slice thickness	0.50 mm
TR	29.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

Geometry - AutoAlign

Slab group	1
Position	L5.7 P28.7 F24.7 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Head > Basis
Initial Position	L5.7 P28.7 F24.7
L	5.7 mm
P	28.7 mm
F	24.7 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	H
Table position	0 mm

Geometry - Tim Planning Suite

Inline Composing	Off
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Geometry - Tim CT

Tim CT mode	Off
Slabs	1
Slices per slab	288
Slice thickness	0.50 mm
Dist. factor	20 %
FoV read	220 mm
FoV phase	59.1 %
Segments	1

System - Miscellaneous

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

System - Adjustments

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

System - Adjust Volume

! Position	L8.1 P28.3 F30.4 mm
! Orientation	Coronal
! Rotation	0.00 deg
! R >> L	200 mm
! F >> H	200 mm
! A >> P	120 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	Volume-selective
Excitation	Non-sel.
pTx Volume	1
Vol. Property	B1 Shim Vol.
Position	L4.0 P27.7 F28.3 mm
Orientation	Coronal
Rotation	0.00 deg
R >> L	129 mm
F >> H	149 mm
A >> P	119 mm
Vol. Visibility	On

System - Tx/Rx

Frequency 1H	297.211163 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	29.0 ms
Concatenations	1
Segments	1

Physio - Cardiac

Tagging	None
Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	220 mm
FoV phase	59.1 %
Phase resolution	100 %

Physio - PACE

Resp. control	Off
Concatenations	1

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	10 deg
Measurements	1
Contrasts	1
TR	29.0 ms
TE	16.00 ms

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	On
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	1
Flow comp.	Yes
Multi-slice mode	Interleaved
Bandwidth	200 Hz/Px

Sequence - Part 2

Segments	1
Acoustic noise reduction	None
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On

Sequence - Assistant

Mode	Off
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