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\\\DZNE

AG-Stoecker

RLS\_Extern

RLS\_extern\_Skyra\_2023

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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\Scout

TA: 0:14 PM: REF Voxel size: 1.6x1.6x1.6 mmPAT: 3 Rel. SNR: 1.00 : fl

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 A20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	128
FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
TR	3.15 ms
TE	1.37 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	3.15 ms
TE	1.37 ms
Flip angle	8 deg

**Contrast - Dynamic**

Averages	1
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1

**Resolution - Common**

FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
Base resolution	160
Phase resolution	100 %
Slice resolution	69 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
Trajectory	Cartesian

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	24
Accel. factor 3D	1

**Resolution - iPAT**

Reference scan mode	Integrated
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**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	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	L0.0 A20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	128
FoV read	260 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
TR	3.15 ms
TE	1.37 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 A20.0 H0.0 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 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	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
Coil Select Mode	Off - All

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off

**System - Adjustments**

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

**Sequence - Assistant**

Mode	Off
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**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	123.262622 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Inline - Common**

Flip angle	8 deg
Measurements	1
Time to center	6.2 s

**Inline - Inline**

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
Dimension	3D
Asymmetric echo	Weak
Contrasts	1
Multi-slice mode	Sequential
Bandwidth	540 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

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TA: 5.4 s PM: FIX Voxel size: 4.0x4.0x4.0 mmPAT: 4 Rel. SNR: 1.00 : 47a0b0a

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Slice oversampling	0.0 %
Slices per slab	48
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	4.00 mm
TR	2100 ms
TE 1	1.12 ms
TE 2	2.03 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	HEA;HEP

**Contrast - Common**

TR	2100 ms
TE 1	1.12 ms
TE 2	2.03 ms
Flip angle 1	60 deg
Flip angle 2	6 deg

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1

**Resolution - Common**

FoV read	216 mm
FoV phase	100.0 %
Slice thickness	4.00 mm
Base resolution	54
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
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**Resolution - iPAT**

Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	GRE/separate
CAIPIRINHA mode	Free

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	48
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	4.00 mm
TR	2100 ms
Multi-slice mode	Interleaved
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-6.0
> S	0.0

**System - Miscellaneous**

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P

**System - Miscellaneous**

Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Head > Brain
Coil Select Mode	Off - All

**Sequence - Assistant**

Mode	Off
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**System - Adjustments**

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

**System - Adjust Volume**

Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Rotation	0.00 deg
A >> P	216 mm
R >> L	216 mm
F >> H	192 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	On
Asymmetric echo	Off
Contrasts	2
Multi-slice mode	Interleaved
Bandwidth	1170 Hz/Px

**Sequence - Part 2**

Echo train duration	2048 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Turbo factor	648

**Sequence - Special**

Preparation scans	1
Preparation loops	0
Sample T1	1500 ms
Shots	1
RF-Duration	150 us
Prep RF-Duration	300 us
Timing Schme	STE*
Mixing Time	910 us
Ref Scan Delay	2000 ms
FFT Scale	20
Calculate FlipMap	On
Scale risetime	1.20

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TA: 0:32 PM: REF Voxel size: 2.4x2.4x2.4 mmPAT: Off Rel. SNR: 1.00 : fm

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	60
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
TR	6.0 ms
TE 1	1.29 ms
TE 2	3.09 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP

**Contrast - Common**

TR	6.0 ms
TE 1	1.29 ms
TE 2	3.09 ms
MTC	Off
Magn. preparation	None
Flip angle	6 deg
Fat suppr.	None
Water suppr.	None
SWI	Off

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
Base resolution	90
Phase resolution	100 %
Slice resolution	100 %

**Resolution - Common**

Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	None
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**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	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	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	60
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
TR	6.0 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Geometry - Saturation**

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

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm

**System - Miscellaneous**

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 > Brain
Coil Select Mode	Off - All

**Inline - MIP**

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

**System - Adjustments**

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

**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

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	Off
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	2
Flow comp. 1	No
Readout mode	Monopolar
Multi-slice mode	Interleaved
Bandwidth 1	990 Hz/Px
Bandwidth 2	990 Hz/Px

**Sequence - Part 2**

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

**Sequence - Assistant**

Mode	Off
Allowed delay	0 s

**Physio - Signal1**

1st Signal/Mode	None
TR	6.0 ms
Concatenations	1
Segments	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	216 mm
FoV phase	100.0 %
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
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\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\log

TA: 1.3 s PM: REF Voxel size: 2.3x2.3x5.0 mmRel. SNR: 1.00 : fl

**Properties**

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

**Routine**

Slice group	1
Slices	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	10.00 ms
TE	5.00 ms
Filter	None
Coil elements	HEA;HEP

**Contrast - Common**

TR	10.00 ms
TE	5.00 ms
Flip angle	15 deg

**Resolution - Common**

FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	128
Phase resolution	100 %

**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	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm

**Geometry - Common**

TR	10.00 ms
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**Geometry - AutoAlign**

Slice group	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 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	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
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	123.262622 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Sequence - Part 1**

Bandwidth	800 Hz/Px
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**Sequence - Special**

Log external	Off
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**Sequence - Special**

Log external 2	Off
Log respiration	On
Log pulse	On
Log ekg	Off

**Sequence - Assistant**

Mode	Off
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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\dzne-bn\_RestingState

TA: 10:20 PM: FIX Voxel size: 2.4x2.4x2.4 mmPAT: 6 Rel. SNR: 1.00 : ep 51e7889

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Slice oversampling	0.0 %
Slices per slab	60
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
TR	570 ms
TE 1	30.00 ms
Averages	1
Multi-echo Shots	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	570 ms
TE 1	30.00 ms
Multi-echo spacing	48.9 ms
MTC	Off
Magn. preparation	Non-sel. IR
TI	297 ms
Flip angle	16 deg
Fat suppr.	SPAIR

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1070
Pause after meas.	0.0 s

**Resolution - Common**

FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
Base resolution	90
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	7/8
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAPIRINHA
Accel. factor PE	1
Ref. lines PE	24
Accel. factor 3D	6
Ref. lines 3D	36
Reordering Shift 3D	2
Reference scan mode	EPI/separate
CAPI Trajectory	Skipped-CAPI

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	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 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	60
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	2.40 mm
TR	570 ms
Multi-echo Shots	1

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Geometry - Saturation**

Saturation mode	Standard
Fat suppr.	SPAIR

**System - Miscellaneous**

Positioning mode	FIX
Table position	H
Table position	0 mm
MSMA	S - C - T
Interpolation	R >> L

**System - Miscellaneous**

Coronal	A >> P
Transversal	F >> H
Coil Combine Mode	Sum of Squares
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Head > Brain
Coil Select Mode	Default

**Sequence - Special**

EPI rise time factor	1.28
Mosaic DICOMs	On
Modify Ice Config	Off
Slab Scale	-7 %
Silent gap	0 #shots

**System - Adjustments**

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

**Sequence - Assistant**

Mode	Off
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**System - Adjust Volume**

! Position	L0.0 P0.0 H4.0 mm
! Orientation	T > C-6.0
! Rotation	0.00 deg
! A >> P	216 mm
! R >> L	216 mm
! F >> H	141 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 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
Elliptical scanning	Off
Reordering	Linear
Contrasts	1
Echo spacing	0.61 ms
Bandwidth	2136 Hz/Px

**Sequence - Part 2**

EPI factor	79
Segmentation	1
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On

**Sequence - Special**

PAT ref. FA	11 deg
RF duration	780 us
RF BWT product	25
Ernst T1	1500 ms
PATRef prep. shots	200
Volume dummy shots	0
Dummy Measurements	3
Integrated PC	Off
Invert PE	Off
Min. TE w/ PF	Off
Water Exc.	Binomial-11
Phase Correction	per Volume

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TA: 6:52 PM: FIX Voxel size: 0.8x0.8x0.8 mmPAT: 2 Rel. SNR: 1.00 : 1d7e965

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Dist. factor	50 %
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2560.0 ms
TE 1	1.85 ms
TE 2	3.75 ms
TE 3	5.65 ms
TE 4	7.55 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D), Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	2560.0 ms
TE 1	1.85 ms
TE 2	3.75 ms
TE 3	5.65 ms
TE 4	7.55 ms
Magn. preparation	Non-sel. IR
TI	1100 ms
Flip angle	7 deg
Fat suppr.	None
Water suppr.	None

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	256 mm
FoV phase	100.0 %

**Resolution - Common**

Slice thickness	0.80 mm
Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	1
Accel. factor 3D	2
Ref. lines 3D	34
Reordering Shift 3D	1
Reference scan mode	Integrated
CAIPIRINHA mode	Free

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	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	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	224
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2560.0 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 A10.0 F20.0
L	0.0 mm
A	10.0 mm
F	20.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

**Geometry - Navigator****System - Miscellaneous**

Positioning mode	FIX
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 > Brain
Coil Select Mode	Off - All

**System - Adjustments**

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

**System - Adjust Volume**

Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Rotation	-5.73 deg
A >> P	256 mm
F >> H	256 mm
R >> L	180 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
TR	2560.0 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	Non-sel. IR
TI	1100 ms
Fat suppr.	None
Dark blood	Off
FoV read	256 mm
FoV phase	100.0 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off

**Inline - Common**

Save original images	On
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**Inline - MIP**

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

**Inline - Composing**

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

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	On
Reordering	Free 0
Asymmetric echo	Off
Contrasts	4
Flow comp.	No
Readout mode	Bipolar
Multi-slice mode	Sequential
Echo spacing	10.4 ms
Bandwidth 1	680 Hz/Px
Bandwidth 2	680 Hz/Px
Bandwidth 3	680 Hz/Px
Bandwidth 4	680 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
RF spoiling	On
Incr. Gradient spoiling	Off
Turbo factor	180

**Sequence - Special****Sequence - Assistant**

Mode	Off
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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\dzne-bn\_T2w

TA: 4:45 PM: FIX Voxel size: 0.8x0.8x0.8 mmPAT: 2 Rel. SNR: 1.00 : 4c8e8d7

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	224
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2800 ms
TE	405 ms
Averages	1.0
Concatenations	1
Filter	Raw filter, Distortion Corr.(3D), Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	2800 ms
TE	405 ms
MTC	Off
Magn. preparation	None
Fat suppr.	None
Blood suppr.	Off
Restore magn.	On

**Contrast - Dynamic**

Averages	1.0
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	256 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAPIRINHA
Accel. factor PE	1
Ref. lines PE	32
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	GRE/separate

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

Raw filter	On
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	224
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	2800 ms
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 A10.0 F20.0
L	0.0 mm
A	10.0 mm
F	20.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

**Geometry - Saturation**

Fat suppr.	None
Restore magn.	On
Special sat.	None

**Geometry - Navigator**

Positioning mode	FIX
Table position	H

**System - Miscellaneous**

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 > Brain
Coil Select Mode	Off - All

**Inline - MIP**

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

**Inline - Composing**

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

**System - Adjustments**

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

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	On
Reordering	Linear
Flow comp.	No
Echo spacing	3.86 ms
Adiabatic-mode	Off
Bandwidth	679 Hz/Px

**System - Adjust Volume**

Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Rotation	-5.73 deg
A >> P	256 mm
F >> H	256 mm
R >> L	180 mm
Reset	Off

**Sequence - Part 2**

Echo train duration	953 ms
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var
Turbo factor	282

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Sequence - Special**

Use Phaselock	On
Perform FIDNAV	On

**Sequence - Assistant**

Allowed delay	30 s
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**Physio - Signal1**

1st Signal/Mode	None
Trigger delay	0 ms
TR	2800 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	256 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
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\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\FLAIR

TA: 4:37 PM: FIX Voxel size: 1.0×1.0×1.0 mmPAT: 2 Rel. SNR: 1.00 : spcir

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	5000 ms
TE	393 ms
Averages	1.0
Concatenations	1
Filter	Raw filter, Distortion Corr.(3D), Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	5000 ms
TE	393 ms
MTC	Off
Magn. preparation	Non-sel. T2-IR
TI 1	1800 ms
Fat suppr.	None
Blood suppr.	Off
Restore magn.	Off

**Contrast - Dynamic**

Averages	1.0
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	6/8
Interpolation	Off

**Resolution - iPAT**

PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Reference scan mode	Integrated

**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

Raw filter	On
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	1.00 mm
TR	5000 ms
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 A10.0 F20.0
L	0.0 mm
A	10.0 mm
F	20.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Sagittal

**Geometry - Saturation**

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

**Geometry - Navigator**

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	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Head > Brain
Coil Select Mode	Off - All

**Inline - MIP**

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

**System - Adjustments**

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

**System - Adjust Volume**

Position	R1.5 P6.0 F21.6 mm
Orientation	S > C1.1 > T-0.1
Rotation	-5.73 deg
A >> P	256 mm
F >> H	256 mm
R >> L	176 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 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
Trigger delay	0 ms
TR	5000 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	Non-sel. T2-IR
TI 1	1800 ms
Fat suppr.	None
Dark blood	Off
FoV read	256 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

\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\DiffusionDSI\_r

TA: 0:38 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 Rel. SNR: 1.00 : epse

**Properties**

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

**Resolution - iPAT**

Reference scan mode	EPI/separate
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**Resolution - Filter Image**

Distortion Corr.	Off
Prescan Normalize	On
Dynamic Field Corr.	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Routine**

Slice group	1
Slices	69
Dist. factor	0 %
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	P >> A
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	5500 ms
TE	105.0 ms
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	5500 ms
TE	105.0 ms
MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Strong

**Contrast - Dynamic**

Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

**Resolution - Common**

FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	104
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

**Resolution - iPAT**

Accel. mode	Slice accel.
Accel. factor PE	1
Ref. lines PE	32
Accel. factor slice	3

**Resolution - iPAT**

Reference scan mode	EPI/separate
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**Resolution - Filter Image**

Distortion Corr.	Off
Prescan Normalize	On
Dynamic Field Corr.	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slice group	1
Slices	69
Dist. factor	0 %
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	P >> A
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	5500 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice group	1
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
A	0.0 mm
H	4.0 mm
Initial Rotation	180.00 deg
Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Geometry - Saturation**

Fat suppr.	Fat sat.
Fat sat. mode	Strong
Special sat.	None

**Geometry - Navigator****System - Miscellaneous**

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

**System - Adjustments**

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

**System - Adjust Volume**

Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Rotation	-178.87 deg
A >> P	208 mm
R >> L	208 mm
F >> H	138 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 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	5500 ms
Concatenations	1

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Diff - Neuro**

Diffusion mode	Free
Diff. directions	119
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	0 s/mm <sup>2</sup>
b-value	4
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	40

**Diff - Body**

Diffusion mode	Free
Diff. directions	119
Diffusion Scheme	Monopolar
Diff. weightings	1
b-value	0 s/mm <sup>2</sup>
b-value	4
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	0 s/mm <sup>2</sup>

**Diff - Body**

Noise level	40
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**Diff - Composing**

Inline Composing	Off
Distortion Corr.	Off

**Sequence - Part 1**

Introduction	Off
Optimization	None
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.71 ms
Bandwidth	1658 Hz/Px

**Sequence - Part 2**

EPI factor	104
RF pulse type	Low SAR
Gradient mode	Fast

\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\DiffusionDSI

TA: 11:17 PM: FIX Voxel size: 2.0×2.0×2.0 mmPAT: 3 Rel. SNR: 1.00 : epse

**Properties**

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

**Resolution - iPAT**

Ref. lines PE	32
Accel. factor slice	3
Reference scan mode	EPI/separate

**Resolution - Filter Image**

Distortion Corr.	Off
Prescan Normalize	On
Dynamic Field Corr.	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Routine**

Slice group	1
Slices	69
Dist. factor	0 %
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Phase oversampling	0 %
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	5500 ms
TE	105.0 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP

**Geometry - Common**

Slice group	1
Slices	69
Dist. factor	0 %
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	A >> P
FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
TR	5500 ms
Multi-slice mode	Interleaved
Series	Interleaved
Concatenations	1

**Contrast - Common**

TR	5500 ms
TE	105.0 ms
MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Strong

**Geometry - AutoAlign**

Slice group	1
Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg
Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Contrast - Dynamic**

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Delay in TR	0 ms
Multiple series	Off

**Geometry - Saturation**

Fat suppr.	Fat sat.
Fat sat. mode	Strong
Special sat.	None

**Resolution - Common**

FoV read	208 mm
FoV phase	100.0 %
Slice thickness	2.0 mm
Base resolution	104
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off

**Geometry - Navigator****System - Miscellaneous**

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

**Resolution - iPAT**

Accel. mode	Slice accel.
Accel. factor PE	1

**System - Miscellaneous**

AutoAlign	Head > Brain
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	R1.4 P13.6 H3.3 mm
Orientation	T > C-0.3 > S0.1
Rotation	1.13 deg
A >> P	208 mm
R >> L	208 mm
F >> H	138 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 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	5500 ms
Concatenations	1

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Diff - Neuro**

Diffusion mode	Free
Diff. directions	119
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	0 s/mm <sup>2</sup>
b-value 2	7350 s/mm <sup>2</sup>
b-value 1	1
b-value 2	1
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
FA maps	Off
Mosaic	On
Tensor	Off
Noise level	40

**Diff - Body**

Diffusion mode	Free
Diff. directions	119
Diffusion Scheme	Monopolar
Diff. weightings	2
b-value 1	0 s/mm <sup>2</sup>
b-value 2	7350 s/mm <sup>2</sup>
b-value 1	1

**Diff - Body**

b-value 2	1
Diff. weighted images	On
Trace weighted images	Off
ADC maps	Off
Exponential ADC Maps	Off
FA maps	Off
Invert Gray Scale	Off
Calculated Image	Off
b-Value >=	0 s/mm <sup>2</sup>
Noise level	40

**Diff - Composing**

Inline Composing	Off
Distortion Corr.	Off

**Sequence - Part 1**

Introduction	Off
Optimization	None
Multi-slice mode	Interleaved
Free echo spacing	Off
Echo spacing	0.71 ms
Bandwidth	1658 Hz/Px

**Sequence - Part 2**

EPI factor	104
RF pulse type	Low SAR
Gradient mode	Fast

\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\dzne-bn\_QSMEPI\_PA

TA: 4:33 PM: FIX Voxel size: 0.8x0.8x0.8 mmPAT: 6 Rel. SNR: 1.00 : ep 8b90903

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Slice oversampling	0.0 %
Slices per slab	176
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	53.3 ms
Vol. TR	65.6656 s
TE 1	6.90 ms
TE 2	17.1 ms
TE 3	27.3 ms
TE 4	12 ms
TE 5	22.2 ms
TE 6	32.4 ms
Averages	1
Multi-echo Shots	2
Filter	Distortion Corr.(3D), Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	53.3 ms
Vol. TR	65.6656 s
TE 1	6.90 ms
TE 2	17.1 ms
TE 3	27.3 ms
TE 4	12 ms
TE 5	22.2 ms
TE 6	32.4 ms
Multi-echo spacing	10.20 ms
MTC	Off
Flip angle	20 deg
Fat suppr.	Water excit. normal

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
Base resolution	270
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	3
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	36
Reordering Shift 3D	1
Reference scan mode	GRE/separate
CAIPI Trajectory	Skipped-CAIPI

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	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 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	53.3 ms
Vol. TR	65.6656 s
Multi-echo Shots	2

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Geometry - Saturation**

Saturation mode	Standard
Sat. region	1
Thickness	150 mm
Position	L0.0 P0.0 F161.0 mm
Orientation	T > C-6.0

**System - Miscellaneous**

Positioning mode	FIX
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 > Brain
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Rotation	0.00 deg
A >> P	216 mm
R >> L	216 mm
F >> H	141 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 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
Contrasts	6
Echo spacing	1.65 ms
Bandwidth	806 Hz/Px

**Sequence - Part 2**

EPI factor	5
Segmentation	14
RF pulse type	Normal
Gradient mode	Fast

**Sequence - Part 2**

Excitation	Slab-sel.
RF spoiling	On

**Sequence - Special**

PAT ref. FA	5 deg
RF duration	1000 us
RF BWT product	32
Ernst T1	1000 ms
PATRef prep. shots	100
Volume dummy shots	0
Noise dummy shots	-1
Integrated PC	Off
Invert PE	On
Min. TE w/ PF	On
Alternate RO	On
Disable freq. adj.	Off
Phase Correction	per Series
Saturation RF	per Shot
EPI rise time factor	1.50
Mosaic DICOMs	On
Modify Ice Config	Off
Slab Scale	-10 %

**Sequence - Assistant**

Mode	Off
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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\dzne-bn\_QSMEPI\_AP

TA: 4:31 PM: FIX Voxel size: 0.8x0.8x0.8 mmPAT: 6 Rel. SNR: 1.00 : ep 8b90903

**Properties**

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

**Routine**

Slab group	1
Slabs	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Slice oversampling	0.0 %
Slices per slab	176
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	53.3 ms
Vol. TR	65.6656 s
TE 1	6.90 ms
TE 2	17.1 ms
TE 3	27.3 ms
TE 4	12 ms
TE 5	22.2 ms
TE 6	32.4 ms
Averages	1
Multi-echo Shots	2
Filter	Distortion Corr.(3D), Prescan Normalize
Coil elements	HEA;HEP

**Contrast - Common**

TR	53.3 ms
Vol. TR	65.6656 s
TE 1	6.90 ms
TE 2	17.1 ms
TE 3	27.3 ms
TE 4	12 ms
TE 5	22.2 ms
TE 6	32.4 ms
Multi-echo spacing	10.20 ms
MTC	Off
Flip angle	20 deg
Fat suppr.	Water excit. normal

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
Base resolution	270
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	3
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	36
Reordering Shift 3D	1
Reference scan mode	GRE/separate
CAIPI Trajectory	Skipped-CAIPI

**Resolution - Filter Image**

Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	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 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	176
FoV read	216 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	53.3 ms
Vol. TR	65.6656 s
Multi-echo Shots	2

**Geometry - AutoAlign**

Slab group	1
Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Phase enc. dir.	A >> P
AutoAlign	Head > Brain
Initial Position	L0.0 P0.0 H4.0
L	0.0 mm
P	0.0 mm
H	4.0 mm
Initial Rotation	0.00 deg

**Geometry - AutoAlign**

Initial Orientation	T > C
T > C	-6.0
> S	0.0

**Geometry - Saturation**

Saturation mode	Standard
Sat. region	1
Thickness	150 mm
Position	L0.0 P0.0 F161.0 mm
Orientation	T > C-6.0

**System - Miscellaneous**

Positioning mode	FIX
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 > Brain
Coil Select Mode	Default

**System - Adjustments**

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

**System - Adjust Volume**

Position	L0.0 P0.0 H4.0 mm
Orientation	T > C-6.0
Rotation	0.00 deg
A >> P	216 mm
R >> L	216 mm
F >> H	141 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Contrasts	6
Echo spacing	1.65 ms
Bandwidth	806 Hz/Px

**Sequence - Part 2**

EPI factor	5
Segmentation	14
RF pulse type	Normal
Gradient mode	Fast

**Sequence - Part 2**

Excitation	Slab-sel.
RF spoiling	On

**Sequence - Special**

PAT ref. FA	5 deg
RF duration	1000 us
RF BWT product	32
Ernst T1	1000 ms
PATRef prep. shots	100
Volume dummy shots	0
Noise dummy shots	-1
Integrated PC	Off
Invert PE	Off
Min. TE w/ PF	On
Alternate RO	Off
Disable freq. adj.	On
Phase Correction	per Series
Saturation RF	per Shot
EPI rise time factor	1.50
Mosaic DICOMs	On
Modify Ice Config	Off
Slab Scale	-10 %

**Sequence - Assistant**

Mode	Off
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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\BodyScout

TA: 0:15 PM: ISO Voxel size: 5.0×5.0×5.0 mmRel. SNR: 1.00 : flct

**Properties**

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

**Geometry - AutoAlign**

L	0.0 mm
A	25.0 mm
F	103.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Tim CT**

Tim CT mode	On
Range start	F
Range start	100 mm
Total FoV	H >> F
Total FoV	700 mm
Slices	1
Slice thickness	5 mm
Dist. factor	100 %
FoV read	480 mm
FoV phase	87.5 %
Perform CTM adjustments	Off
Table Speed	46 mm/s

**Routine**

Slice group	1
Slices	1
Dist. factor	100 %
Position	L0.0 A25.0 F103.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	480 mm
FoV phase	87.5 %
Slice thickness	5 mm
TR	2.56 ms
TE	1.44 ms
Filter	Distortion Corr.(2D)
Coil elements	BC

**Contrast - Common**

TR	2.56 ms
TE	1.44 ms

**Resolution - Common**

FoV read	480 mm
FoV phase	87.5 %
Slice thickness	5 mm
Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8

**Geometry - Common**

Slice group	1
Slices	1
Dist. factor	100 %
Position	L0.0 A25.0 F103.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	480 mm
FoV phase	87.5 %
Slice thickness	5 mm
TR	2.56 ms

**Geometry - AutoAlign**

Slice group	1
Position	L0.0 A25.0 F103.0 mm
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 A25.0 F103.0

**System - Miscellaneous**

Positioning mode	ISO
Table position	F
Table position	103 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Matrix Optimization	Off
AutoAlign	---
Coil Select Mode	Off - All

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adj. water suppr.	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Perform CTM adjustments	Off
Adjustment Tolerance	Maximum

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Img. Scale Cor.	1.000

**Sequence - Part 1**

Dimension	2D
Bandwidth	801.282051 Hz/Px

**Sequence - Assistant**

Mode	Off
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\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\FatImaging

TA: 0:12 PM: ISO Voxel size: 2.0×2.0×5.0 mmPAT: Off Rel. SNR: 1.00 : fl

**Properties**

Prio recon	On
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	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices per slab	72
FoV read	500 mm
FoV phase	87.5 %
Slice thickness	5.0 mm
TR	4.12 ms
TE 1	1.23 ms
TE 2	2.46 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	BC

**Contrast - Common**

TR	4.12 ms
TE 1	1.23 ms
TE 2	2.46 ms
Flip angle	6.0 deg
Fat suppr.	None
Water suppr.	None
Dixon	On

**Contrast - Dynamic**

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

**Resolution - Common**

FoV read	500 mm
FoV phase	87.5 %
Slice thickness	5.0 mm
Base resolution	256
Phase resolution	75 %
Slice resolution	50 %
Phase partial Fourier	6/8
Slice partial Fourier	5/8

**Resolution - Common**

Trajectory	Cartesian
View sharing	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	None
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**Resolution - Filter Image**

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

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off
POCS	Off

**Geometry - Common**

Slab group	1
Slabs	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Slice oversampling	0.0 %
Slices per slab	72
FoV read	500 mm
FoV phase	87.5 %
Slice thickness	5.0 mm
TR	4.12 ms
Multi-slice mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P0.0 F640.0
L	0.0 mm
P	0.0 mm
F	640.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**Geometry - Saturation**

Fat suppr.	None
Water suppr.	None
Dixon	On
Special sat.	None

**System - Miscellaneous**

Positioning mode	ISO
Table position	F

**System - Miscellaneous**

Table position	640 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Performance
AutoAlign	---
Coil Select Mode	Off - All

**System - Adjustments**

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
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	438 mm
R >> L	500 mm
F >> H	360 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.262622 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - PACE**

Resp. control	Breath-hold
Concatenations	1

**Inline - Common**

View sharing	Off
Flip angle	6.0 deg
Measurements	1
Burn time-to-center	Off
Temporal interpolation	1
3D centric reordering	On
Time to center	0.5 s

**Inline - Inline**

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.	On
Mode	3D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	On
Asymmetric echo	Weak
Contrasts	2
Readout mode	Bipolar
Optimization	In phase
Multi-slice mode	Sequential
Bandwidth 1	750 Hz/Px
Bandwidth 2	750 Hz/Px

**Sequence - Part 2**

RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
Incr. Gradient spoiling	On

**Sequence - Assistant**

Mode	Off
Allowed delay	30 s

\\\DZNE\AG-Stoecker\RLS\_Extern\RLS\_extern\_Skyra\_2023\logstop

TA: 1.3 s PM: REF Voxel size: 2.3x2.3x5.0 mmRel. SNR: 1.00 : fl

**Properties**

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

**Routine**

Slice group	1
Slices	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
TR	10.00 ms
TE	5.00 ms
Filter	None
Coil elements	BC

**Contrast - Common**

TR	10.00 ms
TE	5.00 ms
Flip angle	15 deg

**Resolution - Common**

FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm
Base resolution	128
Phase resolution	100 %

**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	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	5.0 mm

**Geometry - Common**

TR	10.00 ms
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**Geometry - AutoAlign**

Slice group	1
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
F	0.0 mm
Initial Rotation	0.00 deg
Initial Orientation	Transversal

**System - Miscellaneous**

Positioning mode	REF
Table position	F
Table position	640 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	---
Coil Select Mode	Default

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
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	123.262622 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Sequence - Part 1**

Bandwidth	800 Hz/Px
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**Sequence - Assistant**

Mode	Off
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