

\\USER\MPI Standard\CEST_VE11C_SM\EPI_final_4_pap\ldzne_ep3d_cest_CEST_Uref=___V

TA: 4:27 PM: FIX Voxel size: 1.8×1.8×1.8 mmPAT: 6 Rel. SNR: 1.00 : june18_19

Properties

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

Routine

Slab group	1
Slabs	1
Position	R1.3 A22.1 F3.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Slice oversampling	0,0 %
Slices per slab	88
FoV read	256 mm
FoV phase	87,5 %
Slice thickness	1,78 mm
TR	4300 ms <small>16x(100+100)ms CEST saturation -></small>
TE 1	11,0 ms <small>TR_RO = 1100ms</small>
Averages	1
TE segmentation	1
Filter	Distortion Corr.(3D)
Coil elements	HC1-7

Contrast - Common

TR	4300 ms
TE 1	11,0 ms
Multi-echo dTE	60,0 ms
MTC	Off
Magn. preparation	None
TI	900 ms
Flip angle	15 deg
Fat suppr.	None

Contrast - Dynamic

Averages	1
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	58
Pause after meas. 1	0,0 s
Pause after meas. 2	0,0 s
Pause after meas. 3	0,0 s
Pause after meas. 4	0,0 s
Pause after meas. 5	0,0 s
Pause after meas. 6	0,0 s
Pause after meas. 7	0,0 s
Pause after meas. 8	0,0 s
Pause after meas. 9	0,0 s
Pause after meas. 10	0,0 s
Pause after meas. 11	0,0 s
Pause after meas. 12	0,0 s
Pause after meas. 13	0,0 s

Contrast - Dynamic

Pause after meas. 14	0,0 s
Pause after meas. 15	0,0 s
Pause after meas. 16	0,0 s
Pause after meas. 17	0,0 s
Pause after meas. 18	0,0 s
Pause after meas. 19	0,0 s
Pause after meas. 20	0,0 s
Pause after meas. 21	0,0 s
Pause after meas. 22	0,0 s
Pause after meas. 23	0,0 s
Pause after meas. 24	0,0 s
Pause after meas. 25	0,0 s
Pause after meas. 26	0,0 s
Pause after meas. 27	0,0 s
Pause after meas. 28	0,0 s
Pause after meas. 29	0,0 s
Pause after meas. 30	0,0 s
Pause after meas. 31	0,0 s
Pause after meas. 32	0,0 s
Pause after meas. 33	0,0 s
Pause after meas. 34	0,0 s
Pause after meas. 35	0,0 s
Pause after meas. 36	0,0 s
Pause after meas. 37	0,0 s
Pause after meas. 38	0,0 s
Pause after meas. 39	0,0 s
Pause after meas. 40	0,0 s
Pause after meas. 41	0,0 s
Pause after meas. 42	0,0 s
Pause after meas. 43	0,0 s
Pause after meas. 44	0,0 s
Pause after meas. 45	0,0 s
Pause after meas. 46	0,0 s
Pause after meas. 47	0,0 s
Pause after meas. 48	0,0 s
Pause after meas. 49	0,0 s
Pause after meas. 50	0,0 s
Pause after meas. 51	0,0 s
Pause after meas. 52	0,0 s
Pause after meas. 53	0,0 s
Pause after meas. 54	0,0 s
Pause after meas. 55	0,0 s
Pause after meas. 56	0,0 s
Pause after meas. 57	0,0 s

Resolution - Common

FoV read	256 mm
FoV phase	87,5 %
Slice thickness	1,78 mm
Base resolution	144
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off

Resolution - iPAT

PAT mode	CAIPIRINHA
Acc. factor PE	1
Ref. lines PE	36

Resolution - iPAT

Acc. factor 3D	6
Ref. lines 3D	36
CAIPI 3D Shift	2
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
Position	R1.3 A22.1 F3.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	0,0 %
Slices per slab	88
FoV read	256 mm
FoV phase	87,5 %
Slice thickness	1,78 mm
TR	4300 ms
Multi-slice mode	Interleaved
Series	Ascending
TE segmentation	1

Geometry - AutoAlign

Slab group	1
Position	R1.3 A22.1 F3.4 mm
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	---
Initial Position	R1.3 A22.1 F3.4
R	1,3 mm
A	22,1 mm
F	3,4 mm
Initial Rotation	0,00 deg
Initial Orientation	Sagittal

Geometry - Saturation

Saturation mode	Standard
Fat suppr.	None

System - Miscellaneous

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

System - Miscellaneous

Coil Select Mode	Default
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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	R2.0 A15.9 H11.2 mm
! Orientation	Sagittal
! Rotation	14,29 deg
! A >> P	199 mm
! F >> H	153 mm
! R >> L	157 mm
Reset	Off

System - pTx Volumes

B1 Shim mode	TrueForm
Excitation	Non-sel.

System - Tx/Rx

Frequency 1H	123,248745 MHz
Correction factor	1
Gain	Low
Img. Scale Cor.	0,500
Reset	Off
? Ref. amplitude 1H	0,000 V

BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Ignore meas. at start	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4,00
Paradigm size	3
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Active
Motion correction	Off
Spatial filter	Off
Measurements	58

Sequence - Part 1

Introduction	On
Dimension	3D
Elliptical scanning	On
Reordering	Centric
Asymmetric echo	Off
Contrasts	1
Multi-slice mode	Interleaved
Echo spacing	0,64 ms
Bandwidth	1930 Hz/Px

Sequence - Part 2

EPI factor	32
Segmentation	3
RF pulse type	Normal

Sequence - Part 2

Gradient mode	Performance
Excitation	Non-sel.
RF spoiling	On

Sequence - Special

PATRef FA	3 deg
RF duration	1000 us
Ernst T1	1200 ms
PATRef prep. shots	10
Volume dummy shots	0
Dummy Measurements	0
ETL per RTEB	1
Invert PE	Off
Invert RO	Off
Min. TE if PF	On
Feq. adjust	On
Alternate RO	Off
Disable PF reco	Off
Force POCS reco	Off
Ramp Sampling	On
Echo Time Shift	On
Separate RO pol.	Off
Save sampling	Off
PE VComp	Off
Water Exc.	Binomial-11
External PC	-none-
Saturation phase	On
Use as recovery	Off
Pulse Type	Gauss
Adiabatic Mu	6
Adiabatic BW	1200 Hz
Adiabatic Length	8000 us
Adiabatic B1	20,00 uT
Adiabatic WL	1000 us
No. Sat. Pulses	16
No. Locking Pulses	1
Pulse Duration	100000 us
Duty Cycle	50 pc
Recover Time	0 ms
Recover Time M0	12000 ms
Readout Delay	1 ms
Sampling Strategy	List
Spoiling	only last
B1	0,65 uT
Offset	2,0 ppm

Sequence - Assistant

Mode	Off
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