SIEMENS MAGNETOM Investigational_Device_7T syngo MR B17

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\localizer

TA: 0:13 PAT: Off Voxel size: 1.1×1.0×7.0 mm Rel. SNR: 1.00 SIEMENS: gre

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

Slice group 1	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	Isocenter
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	7.0 mm
TR	8.6 ms
TE	4.00 ms
Averages	2
Concatenations	3
Filter	Elliptical filter
Coil elements	A32

Contrast

TD	0 ms
MTC	Off
Magn. preparation	None
Flip angle	20 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	256
Phase resolution	90 %
Phase partial Fourier	Off
Interpolation	On
PAT mode	None
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Sequential
Series	Interleaved
Saturation mode	Standard
Special sat.	None
Table position	H
Table position	0 mm
Inline Composing	Off
Tim CT mode	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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Off
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Physio

1st Signal/Mode	None
Segments	1
Tagging	None
Dark blood	Off
Resp. control	Off

Inline

Subtract	Off
Liver registration	Off
Std-Dev-Sag	Off
Std-Dev-Cor	Off

Std-Dev-Tra	Off
Std-Dev-Time	Off
MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off
MapIt	None
Contrasts	1

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Bandwidth	320 Hz/Px
Flow comp.	No
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\b1map_658_adj

TA: 1:14 Voxel size: 7.8×7.8×5.0 mm Rel. SNR: 1.00 USER: b1map_658

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

Slice group 1	
Slices	18
Dist. factor	100 %
Position	L0.0 A45.4 H10.6
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
FoV read	250 mm
FoV phase	100.0 %
Slice thickness	5 mm
TR	2100 ms
TE 1	14 ms
TE 2	14 ms
Averages	1
Filter	None
Coil elements	A32

Contrast

Flip angle 1	90 deg
Flip angle 2	120 deg
Flip angle 3	60 deg
Flip angle 4	135 deg
Flip angle 5	45 deg
Measurements	1

Resolution

Base resolution	32
Phase resolution	100 %
Raw filter	Off

Geometry

Series	Interleaved
Navigator 1	
Position	L1.8 P37.5 F9.1
Orientation	T > C2.2
Rotation	0.00 deg
Base size phase	50 mm
Base size read	50 mm
Thickness	50 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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	350 mm
A >> P	263 mm
F >> H	350 mm

Composing

Sequence

Contrasts	2
Bandwidth	260.416667 Hz/Px
T1 Compensation	Mean T1
Mean T1	500.0 ms
Angles	1
Amplitude Weighting	Linear
Scale Bar	Disabled
Raw Data	Disabled

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\mp2rage-wip900_Grappa3_PF6/8

TA: 9:38 PAT: 3 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: tfl_wip900b17a

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	L1.2 A37.4 F12.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	8.3 %
Slices per slab	192
FoV read	240 mm
FoV phase	93.8 %
Slice thickness	0.75 mm
TR	6000 ms
TE	3.06 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D)
Coil elements	A32

Contrast

Magn. preparation	Non-sel. IR
TI 1	800 ms
TI 2	2700 ms
Flip angle 1	4 deg
Flip angle 2	5 deg
Fat suppr.	None
Water suppr.	None
2nd Inversion Contrast	On
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
PAT mode	GRAPPA
Accel. factor PE	3
Ref. lines PE	32
Accel. factor 3D	1
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On
Prescan Normalize	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved
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	---
Auto Coil Select	Default
Shim mode	Tune up
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	Isocenter
! Orientation	Transversal
! Rotation	0.00 deg
! R >> L	350 mm
! A >> P	263 mm
! F >> H	350 mm

Physio

1st Signal/Mode	None
Dark blood	Off
Resp. control	Off

Composing

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Contrasts	1
Bandwidth	240 Hz/Px
Flow comp.	No
Echo spacing	7.4 ms
RF pulse type	Fast
Gradient mode	Fast*
Excitation	Non-sel.
RF spoiling	On
FFT Scale Factor	150 %
Morphometry Analysis	On

FID MoCo Logging	Off
FID Coil Phase Corr.	Off
LIN/PAR Swap	Off
Ext. INV Pulse	On
Flip Angle	700
Phase Filter	0 px
Uniform Image	On
Head Mask on UNI	Off
T1 Map	On
Complex Div. Image	Off
Denoise Weighting	150
FLAWS	Off

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20

TA: 0:22 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	3
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\gre_field_mapping_3mm

TA: 2:28 Voxel size: 2.0×2.0×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

Slice group 1	
Slices	40
Dist. factor	20 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	574 ms
TE 1	10.00 ms
TE 2	11.02 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	45 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Composing

Sequence

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run01

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run02

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run03

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run04

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run05

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run06

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\gre_field_mapping_3mm

TA: 2:28 Voxel size: 2.0×2.0×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

Slice group 1	
Slices	40
Dist. factor	20 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	574 ms
TE 1	10.00 ms
TE 2	11.02 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	45 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Composing

Sequence

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run07

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run08

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run09

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run10

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run11

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run12

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\gre_field_mapping_3mm

TA: 2:28 Voxel size: 2.0×2.0×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

Slice group 1	
Slices	40
Dist. factor	20 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	574 ms
TE 1	10.00 ms
TE 2	11.02 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	45 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Composing

Sequence

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run13

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run14

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run15

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run16

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run17

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\BP_ep3d_8x1_0.8mm_TE20_run18

TA: 4:02 PAT: 8 Voxel size: 0.8×0.8×0.8 mm Rel. SNR: 1.00 USER: BP_ep3d_bold_multiecho_DefaultStream

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	On
Start measurements	single

Routine

Slab group 1	
Slabs	1
Dist. factor	50 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	11.1 %
Slices per slab	72
FoV read	192 mm
FoV phase	100.0 %
Slice thickness	0.80 mm
TR	51 ms
TE	20 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	14 deg
Fat suppr.	Water excit. normal
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	75
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	232
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	6/8
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
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Physio

1st Signal/Mode	None

BOLD

Motion correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Dimension	3D
Reordering	Linear
Contrasts	1
Bandwidth	828 Hz/Px
Free echo spacing	Off
Echo spacing	1.37 ms
EPI factor	232
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
use Ernst angle	On
Maxwell Correction	On
log physio files	On
RF BWTP	22.6
bipolar water excite?	On
WE with 540 phase?	On

EFFECTIVE TR	3060 ms
PatPartitions	60
EPI phase correction	local
PAT refscan mode	segm LIN->PAR
FlashRef BaseRes	64
FlashRef BW	1000 Hz/px
FlashRef TE	4800 us
FlashRef FA	5 deg
use CAIPI	On
CAIPI shift kz	0
CAIPI shift ky	4

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\gre_field_mapping_3mm

TA: 2:28 Voxel size: 2.0×2.0×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

Slice group 1	
Slices	40
Dist. factor	20 %
Position	L0.0 P8.1 H31.4
Orientation	C > T-42.3
Phase enc. dir.	F >> H
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	574 ms
TE 1	10.00 ms
TE 2	11.02 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	45 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L1.2 P14.6 H23.8
! Orientation	C > T-41.3
! Rotation	-90.00 deg
! R >> L	120 mm
! F >> H	138 mm
! A >> P	63 mm

Composing

Sequence

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On

\\USER\LAUBAI\attn_Janneke_Jehee_Nijmegen\20160513_Z7T1961\gre_field_mapping_3mm

TA: 2:01 Voxel size: 2.0×2.0×3.0 mm Rel. SNR: 1.00 SIEMENS: gre_field_mapping

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

Slice group 1	
Slices	40
Dist. factor	51 %
Position	L9.1 A30.8 H0.6
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	256 mm
FoV phase	81.3 %
Slice thickness	3.0 mm
TR	574 ms
TE 1	10.00 ms
TE 2	11.02 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	A32

Contrast

MTC	Off
Flip angle	45 deg
Fat suppr.	None
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
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	Adaptive Combine
AutoAlign	---
Auto Coil Select	Default
Shim mode	Standard
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Silicone	Off
? Ref. amplitude 1H	0.000 V
Adjustment Tolerance	Auto
Adjust volume	
! Position	L3.0 A10.0 H28.4
! Orientation	T > C-14.8
! Rotation	-0.00 deg
! R >> L	87 mm
! A >> P	92 mm
! F >> H	61 mm

Composing

Sequence

Introduction	Off
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	260 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Fast
RF spoiling	On