

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\localizer BRING SCANS OVER ONE AT TIME

TA: 9.2 s PAT: Off Voxel size: 1.7×1.2×10.0 mm Rel. SNR: 1.00 SIEMENS: gre

Properties

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

Routine

Slice group 1	
Slices	3
Dist. factor	20 %
Position	L0.0 A20.0 H0.0
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 2	
Slices	1
Dist. factor	20 %
Position	L0.0 A20.0 H0.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Slice group 3	
Slices	1
Dist. factor	20 %
Position	L0.0 A10.0 H0.0
Orientation	Coronal
Phase enc. dir.	R >> L
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	10.0 mm
TR	8.6 ms
TE	4.00 ms
Averages	1
Concatenations	5
Filter	Distortion Corr.(2D), Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP;NEP

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	70 %
Phase partial Fourier	Off
Interpolation	On
PAT mode	None
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr. Mode	2D
Unfiltered images	Off
Unfiltered images	Off
Prescan Normalize	On
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
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off
Tim CT mode	Off

System

Body	Off
HEP	On
NEP	On
HEA	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	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

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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

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Normal
Excitation	Slice-sel.
RF spoiling	On

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\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\mrac_pet_ute_vb20

TA: 1:40 PAT: Off Voxel size: 1.6×1.6×1.6 mm Rel. SNR: 1.00 SIEMENS: CV_UTE_AC

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

Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off
POCS	Off

Geometry

Multi-slice mode	Sequential
Series	Interleaved
Special sat.	None
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off

Routine

Slab group 1	
Slabs	1
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
Auto	Off
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices Per Slab	192
FoV read	300 mm
FoV phase	100.0 %
Slice thickness	1.6 mm
TR	11.94 ms
TE 1	0.07 ms
TE 2	2.46 ms
Averages	1
Concatenations	1
Filter	Distortion Corr.(3D), Prescan
	Normalize
Coil elements	HEA;HEP;NEA;NEP

System

Body	Off
HEP	On
NEP	On
HEA	On
NEA	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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	300 mm
A >> P	300 mm
F >> H	308 mm

Contrast

Magn. preparation	None
Flip Angle	10 deg
Fat suppr.	None
Restore magn.	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Physio

1st Signal/Mode	None
Segments	3
Dark blood	Off
Cine	Off
Resp. control	Off

Resolution

Base resolution	192
Radial views	25002
Slice resolution	100 %
Radial interleaves	1
Trajectory	Radial
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Auto (CP)
Image Filter	Off
Distortion Corr.	On
Mode	3D
Unfiltered images	On
Unfiltered images	Off

Inline

Subtract	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

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Save Original Images	On
Sequence	
Introduction	Off
Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Weak
Contrasts	2
Bandwidth 1	1532 Hz/Px
Bandwidth 2	1085 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Readout mode	Bipolar
Optimization	None
Allowed delay	0 s
Echo spacing	4 ms
Sequence type	Gre
Define	Segments
Shots per slice	8334
RF pulse type	Normal
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	Constant
RF spoiling	Off
Phase Enc. Rewinder	On
Additional ADC time	0
Delay time[0]	0.0
Delay time[1]	0.0
Additional scaling	0.03

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\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\t1_fl2d_sag WAIT FOR RECON BEFORE STARTING

TA: 0:32 PAT: 2 Voxel size: 1.3x1.3x4.0 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	On
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

B1 filter	Off
Raw filter	Off
Elliptical filter	On
Mode	Inplane

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Saturation mode	Standard
Special sat.	None
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off
Tim CT mode	Off

Routine

Slice group 1	
Slices	27
Dist. factor	0 %
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	13 %
FoV read	256 mm
FoV phase	100.0 %
Slice thickness	4.0 mm
TR	250.0 ms
TE	2.50 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize, Elliptical filter
Coil elements	HEA;HEP;NEP

System

Body	Off
HEP	On
NEP	On
HEA	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	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

Contrast

MTC	Off
Magn. preparation	None
Flip Angle	90 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	192
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Unfiltered images	Off
Prescan Normalize	On
Normalize	Off

Physio

1st Signal/Mode	None
Segments	1
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

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Save Original Images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Allowed
Contrasts	1
Bandwidth	320 Hz/Px
Flow comp.	No
Allowed delay	60 s
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\ep2d_BOLD_resting_320meas

TA: 8:09 PAT: Off Voxel size: 2.3x2.3x2.3 mm Rel. SNR: 1.00 USER: cmrr_mbep2d_bold

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

Slice group 1	
Slices	45
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	2.30 mm
TR	1500 ms
TE	30.0 ms
Multi-band accel. factor	3
Filter	None
Coil elements	HEA;HEP;NEA;NEP

Contrast

MTC	Off
Magn. preparation	None
Flip Angle	50 deg
Fat suppr.	Fat sat.
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	320
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
Set-n-Go Protocol	Off

Table Position	H
Table Position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
NEP	On
HEA	On
NEA	On
Positioning mode	REF
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	Isocenter
Orientation	Transversal
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	104 mm

Physio

1st Signal/Mode	None
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BOLD

GLM Statistics	Off
Dynamic t-maps	Off
Starting ignore meas	0
Ignore after transition	0
Model transition states	On
Temp. highpass filter	On
Threshold	4.00
Paradigm size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Active
Meas[12]	Active
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active

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Motion Correction	Off
Spatial filter	Off

Sequence

Introduction	Off
Contrasts	1
Bandwidth	1488 Hz/Px
Flow comp.	No
Free echo spacing	Off
Echo spacing	0.95 ms
EPI factor	96
Gradient mode	Fast
RF spoiling	Off
Excite pulse duration	3840 us
Single-band images	On
MB LeakBlock kernel	On
MB dual kernel	Off
MB RF phase scramble	Off
SENSE1 coil combine	On
Invert RO/PE polarity	Off
PF omits higher k-space	Off
Force equal slice timing	Off
Online multi-band recon.	Online
FFT scale factor	1.00
Physio recording	Off
Triggering scheme	Standard

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\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\gre_field_mapping

TA: 1:35

Voxel size: 2.3×2.3×2.3 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	On
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

Slice group 1	
Slices	45
Dist. factor	0 %
Position	Isocenter
Orientation	Transversal
Phase enc. dir.	R >> L
Rotation	90.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	2.3 mm
TR	480 ms
TE 1	4.92 ms
TE 2	7.38 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

MTC	Off
Flip Angle	35 deg
Fat suppr.	None
Averaging mode	Long term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
Matrix Coil Mode	Triple
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

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

System

Body	Off
HEP	On
NEP	On
HEA	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	Off
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	Isocenter
Orientation	Transversal
Rotation	90.00 deg
A >> P	220 mm
R >> L	220 mm
F >> H	104 mm

Composing

Sequence

Introduction	On
Dimension	2D
Asymmetric echo	Off
Contrasts	2
Bandwidth	301 Hz/Px
Flow comp.	Yes
RF pulse type	Normal
Gradient mode	Normal
RF spoiling	On

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\Sagittal_MPRAGE_ADNI_G2

TA: 5:03 PAT: 2 Voxel size: 1.0×1.0×1.0 mm Rel. SNR: 1.00 SIEMENS: tfl

Properties

Prio Recon	Off
Before measurement	
After measurement	
Load to viewer	On
Inline movie	Off
Auto store images	On
Load to stamp segments	On
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	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	18.2 %
Slices Per Slab	176
FoV read	256 mm
FoV phase	93.8 %
Slice thickness	1.00 mm
TR	2300 ms
TE	2.98 ms
Averages	1
Concatenations	1
Filter	Prescan Normalize
Coil elements	HEA;HEP;NEP

Contrast

Magn. preparation	Non-sel. IR
TI	900 ms
Flip Angle	9 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Off

Resolution

Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	1
Matrix Coil Mode	Triple
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off

Unfiltered images	Off
Prescan Normalize	On
Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
NEP	On
HEA	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	Off
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	Isocenter
Orientation	Sagittal
Rotation	0.00 deg
F >> H	256 mm
A >> P	240 mm
R >> L	176 mm

Physio

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

Inline

Subtract	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

Sequence

Introduction	On
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Dimension	3D
Elliptical scanning	Off
Asymmetric echo	Off
Bandwidth	240 Hz/Px
Flow comp.	No
Echo spacing	7.1 ms
RF pulse type	Fast
Gradient mode	Normal
Excitation	Non-sel.
RF spoiling	On

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\gre

TA: 1:34 PAT: 2 Voxel size: 1.7×1.7×3.0 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	40
Dist. factor	0 %
Position	Isocenter
Orientation	T > C-25.0
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	1090 ms
TE 1	3.63 ms
TE 2	8.64 ms
TE 3	12.58 ms
TE 4	16.52 ms
TE 5	23.00 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

MTC	Off
Magn. preparation	None
Flip Angle	25 deg
Fat suppr.	None
Water suppr.	None
SWI	Off
Averaging mode	Short term
Reconstruction	Magn./Phase
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	42
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
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
Saturation mode	Standard
Special sat.	None
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off
Tim CT mode	Off

System

Body	Off
HEP	On
NEP	On
HEA	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	Isocenter
Orientation	T > C-25.0
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	120 mm

Physio

1st Signal/Mode	None
Segments	1
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

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MIP-Time	Off
Save Original Images	On
Wash - In	Off
Wash - Out	Off
TTP	Off
PEI	Off
MIP - time	Off

Sequence

Introduction	On
Dimension	2D
Phase stabilisation	Off
Asymmetric echo	Off
Contrasts	5
Bandwidth 1	260 Hz/Px
Bandwidth 2	260 Hz/Px
Bandwidth 3	260 Hz/Px
Bandwidth 4	260 Hz/Px
Bandwidth 5	260 Hz/Px
Flow comp. 1	No
Flow comp. 2	No
Flow comp. 3	No
Flow comp. 4	No
Flow comp. 5	No
Readout mode	Bipolar
Allowed delay	0 s
RF pulse type	Normal
Gradient mode	Fast
Excitation	Slice-sel.
RF spoiling	On

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\tse

TA: 2:10

PAT: 2

Voxel size: 1.7×1.7×3.0 mm

Rel. SNR: 1.00

SIEMENS: tse

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

Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off
Tim CT mode	Off

Routine

Slice group 1	
Slices	40
Dist. factor	0 %
Position	Isocenter
Orientation	T > C-25.0
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	3.0 mm
TR	10680 ms
TE 1	12 ms
TE 2	98 ms
TE 3	184 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

System

Body	Off
HEP	On
NEP	On
HEA	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	Isocenter
Orientation	T > C-25.0
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	120 mm

Contrast

MTC	Off
Magn. preparation	None
Flip Angle	180 deg
Fat suppr.	None
Water suppr.	None
Restore magn.	Off
Averaging mode	Short term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Physio

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

Resolution

Base resolution	128
Phase resolution	100 %
Phase partial Fourier	Off
Trajectory	Cartesian
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	26
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Inline

Subtract	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

Sequence

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

Introduction	On
Dimension	2D
Compensate T2 decay	Off
Reduce Motion Sens.	Off
Contrasts	3
Bandwidth	130 Hz/Px
Flow comp.	No
Allowed delay	0 s
Echo spacing	12.3 ms
Define	Turbo factor
Turbo factor	7
Echo trains per slice	11
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\ep2d_diff_PA

TA: 0:27

PAT: Off

Voxel size: 2.3×2.3×2.3 mm

Rel. SNR: 1.00

SIEMENS: ep2d_diff

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	50
Dist. factor	0 %
Position	L0.0 A20.0 H0.0
Orientation	Transversal
Phase enc. dir.	P >> A
Rotation	180.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	2.3 mm
TR	13500 ms
TE	141 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

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

System

Body	Off
HEP	On
NEP	On
HEA	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	L0.0 A20.0 H0.0
Orientation	Transversal
Rotation	180.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	115 mm

Physio

1st Signal/Mode	None
Resp. control	Off

Diff

Diffusion mode	MDDW
Diff. weightings	1
b-value	0 s/mm²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	40
Diff. directions	6

Sequence

Introduction	Off
Bandwidth	754 Hz/Px
Free echo spacing	Off
Echo spacing	1.39 ms
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\ep2d_diff_AP

TA: 0:27 PAT: Off Voxel size: 2.3×2.3×2.3 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

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	50
Dist. factor	0 %
Position	L0.0 A20.0 H0.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	2.3 mm
TR	13500 ms
TE	141 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

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

System

Body	Off
HEP	On
NEP	On
HEA	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	L0.0 A20.0 H0.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	115 mm

Physio

1st Signal/Mode	None
Resp. control	Off

Diff

Diffusion mode	MDDW
Diff. weightings	1
b-value	0 s/mm²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	Off
Mosaic	Off
Tensor	Off
Noise level	40
Diff. directions	6

Sequence

Introduction	Off
Bandwidth	754 Hz/Px
Free echo spacing	Off
Echo spacing	1.39 ms
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\ep2d_diff_DSI_113

TA: 22:14 PAT: Off Voxel size: 2.3×2.3×2.3 mm Rel. SNR: 1.00 SIEMENS: ep2d_diff

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	50
Dist. factor	0 %
Position	L0.0 A20.0 H0.0
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
FoV read	220 mm
FoV phase	100.0 %
Slice thickness	2.3 mm
TR	11700 ms
TE	141 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

MTC	Off
Magn. preparation	None
Fat suppr.	Fat sat.
Fat sat. mode	Weak
Averaging mode	Long term
Reconstruction	Magnitude
Delay in TR	0 ms
Multiple series	Off

Resolution

Base resolution	96
Phase resolution	100 %
Phase partial Fourier	6/8
Interpolation	Off
PAT mode	None
Matrix Coil Mode	Triple
Distortion Corr.	Off
Prescan Normalize	Off
Raw filter	On
Elliptical filter	Off
Hamming	Off

Geometry

Multi-slice mode	Interleaved
Series	Interleaved
Special sat.	None

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

System

Body	Off
HEP	On
NEP	On
HEA	On
Positioning mode	FIX
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
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	L0.0 A20.0 H0.0
Orientation	Transversal
Rotation	0.00 deg
R >> L	220 mm
A >> P	220 mm
F >> H	115 mm

Physio

1st Signal/Mode	None
Resp. control	Off

Diff

Diffusion mode	Free
Diff. weightings	1
b-value	4000 s/mm²
Diff. weighted images	On
Trace weighted images	Off
Average ADC maps	Off
Individual ADC maps	Off
FA maps	On
Mosaic	On
Tensor	On
Noise level	40
Diff. directions	113

Sequence

Introduction	Off
Bandwidth	754 Hz/Px
Free echo spacing	Off
Echo spacing	1.39 ms
EPI factor	96
RF pulse type	Normal
Gradient mode	Fast

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\tfl_MT

TA: 2:17 PAT: 2 Voxel size: 1.8×1.8×1.8 mm Rel. SNR: 1.00 USER: tfl_MT

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	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices Per Slab	72
FoV read	230 mm
FoV phase	75.0 %
Slice thickness	1.80 mm
TR	3000 ms
TE	1.59 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

Magn. preparation	None
Flip Angle	8 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	21
Accel. factor 3D	1
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
NEP	On
HEA	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	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

Inline

Subtract	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

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

Asymmetric echo	Allowed
Bandwidth	490 Hz/Px
Flow comp.	No
Echo spacing	3.7 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
(not used)	100 mm
(not used)	0 us
(not used)	100 mm
(not used)	1000000 us
(not used)	0 mm
(not used)	0 us
(not used)	400 mm
MT pulse Num	4 Num
MT FreqOffset	2500 Hz
MT FlipAngle	1980 deg
MT Duration	60160 us
MT PreTime	160 us
MT PostTime	4160 us

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

\\USER\BRAIN\wpc-6770\wpc-6770_15_DTBZ_Y3\tfl_noMT

TA: 2:17 PAT: 2 Voxel size: 1.8×1.8×1.8 mm Rel. SNR: 1.00 USER: tfl_MT

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	Isocenter
Orientation	Transversal
Phase enc. dir.	A >> P
Rotation	0.00 deg
Phase oversampling	0 %
Slice oversampling	0.0 %
Slices Per Slab	72
FoV read	230 mm
FoV phase	75.0 %
Slice thickness	1.80 mm
TR	3000 ms
TE	1.59 ms
Averages	1
Concatenations	1
Filter	None
Coil elements	HEA;HEP;NEP

Contrast

Magn. preparation	None
Flip Angle	8 deg
Fat suppr.	None
Water suppr.	None
Averaging mode	Long term
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

Resolution

Base resolution	128
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	6/8
Slice partial Fourier	Off
Interpolation	Off
PAT mode	GRAPPA
Accel. factor PE	2
Ref. lines PE	21
Accel. factor 3D	1
Matrix Coil Mode	Auto (Triple)
Reference scan mode	Integrated
Image Filter	Off
Distortion Corr.	Off
Prescan Normalize	Off

Normalize	Off
B1 filter	Off
Raw filter	Off
Elliptical filter	Off

Geometry

Multi-slice mode	Single shot
Series	Interleaved
Set-n-Go Protocol	Off
Table Position	H
Table Position	0 mm
Inline Composing	Off

System

Body	Off
HEP	On
NEP	On
HEA	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	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

Inline

Subtract	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

Sequence

Introduction	On
Dimension	3D
Elliptical scanning	Off

SIEMENS MAGNETOM Biograph_mMR syngo MR B20P

Asymmetric echo	Allowed
Bandwidth	490 Hz/Px
Flow comp.	No
Echo spacing	3.7 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Slab-sel.
RF spoiling	On
(not used)	100 mm
(not used)	0 us
(not used)	100 mm
(not used)	1000000 us
(not used)	0 mm
(not used)	0 us
(not used)	400 mm
MT pulse Num	4 Num
MT FreqOffset	2500 Hz
MT FlipAngle	0 deg
MT Duration	60160 us
MT PreTime	160 us
MT PostTime	4160 us

Table of contents

\\USER	BRAIN	wpc-6770	wpc-6770_15_DTBZ_Y3	localizer BRING SCANS OVER ONE AT TIME
				mrac_pet_ute_vb20
				t1_fl2d_sag WAIT FOR RECON BEFORE STARTING EVERY SCAN
				ep2d_BOLD_resting_320meas
				gre_field_mapping
				Sagittal_MPRAGE_ADNI_G2
				gre
				tse
				ep2d_diff_PA
				ep2d_diff_AP
				ep2d_diff_DSI_113
				tfl_MT
				tfl_noMT