SERIES 1. 3 Plane Localizer

Patient (RF)

Coil	8HRBRAIN

Scan Timing

Imaging

Scan plane	3-PLANE
Mode	2D
Pulse sequence	Gradient Echo
Imaging Options	Seq, Fast

Additional Parameters

Acquisition Timing

Frequency	256
Phase	128
NEX	1.00
phase field of view	1.00
phase correct	No
swap phase & frequency	Unswap
autoshim	Auto

Range / Prescription

field of view	26.0
slice thickness	5.0
slice spacing	0.0

SERIES 2. Sag IR-FSPGR

Patient (RF)

Coil	8HRBRAIN

Scan Timing

TE	Min Full
TI	400
Flip angle	11
BW1	31.25

Imaging

Scan plane	SAGITTAL
Mode	3D
Pulse sequence	SPGR
Imaging Options	EDR, Fast, IrP

Additional Parameters

User CVs

CV4	0.00
CV5	0.00
CV6	1.00
CV23	100.00

Acquisition Timing

Frequency	256
Phase	256
NEX	1.00
phase field of view	1.00
phase correct	No
swap phase & frequency	S/I
autoshim	On

Range / Prescription

slices per slab	200
field of view	26.0
slice thickness	1.2
number of slices	1

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 3. Calibration Scan

Patient (RF)

Coil	8HRBRAIN

Scan Timing

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	Gradient Echo
Imaging Options	Fast, Calib

Additional Parameters

Acquisition Timing

phase correct	No
swap phase & frequency	R/L
autoshim	Auto

Range / Prescription

field of view	30.0
slice thickness	5.0
slice spacing	0.0
number of slices	60

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 4. Accelerated Sag IR-FSPGR

Patient (RF)

Coil	8HRBRAIN

Scan Timing

TE	Min Full
TI	400
Flip angle	11
BW1	31.25

Imaging

Scan plane	SAGITTAL
Mode	3D
Pulse sequence	SPGR
Imaging Options	EDR, Fast, IrP, Asset

Additional Parameters

User CVs

CV4	0.00
CV5	0.00
CV6	1.00
CV23	100.00

Acquisition Timing

Frequency	256
Phase	256
NEX	1.00
phase field of view	1.00
phase correct	No
swap phase & frequency	S/I
autoshim	On

Range / Prescription

slices per slab	200
field of view	27.0
slice thickness	1.2
number of slices	1

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 5. Axial FLAIR

Patient (RF)

Coil	8HRBRAIN

Scan Timing

TE	147.0
TR	11000.0
TI	2250
BW1	31.25

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	T2flair
Imaging Options	Fast

Additional Parameters

User CVs

CV3	3.00
CV8	0.00
CV9	0.00
CV11	0.00
CV14	0.00
CV21	0.00
CV22	0.00

Acquisition Timing

Frequency	256
Phase	256
NEX	1.00
phase correct	No
swap phase & frequency	A/P
autoshim	Auto

Range / Prescription

field of view	22.0
slice thickness	5.0
slice spacing	0.0
number of slices	42

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 6. Axial T2 Star

Patient (RF)

Coil	8HRBRAIN

Scan Timing

Number of echoes	1
TE	20.0
TR	650.0
Flip angle	20
BW1	25.00

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	Gradient Echo
Imaging Options	FC, EDR

Additional Parameters

Acquisition Timing

Frequency	256
Phase	192
NEX	1.00
phase field of view	1.00
phase correct	No
swap phase & frequency	A/P
autoshim	Auto

Range / Prescription

field of view	20.0
slice thickness	4.0
slice spacing	0.0
number of slices	50

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 7. Axial DTI

Patient (RF)

Coil	8HRBRAIN

Scan Timing

TE	Minimum
TR	9050.0

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	Spin Echo
Imaging Options	EPI, DIFF, Asset

Additional Parameters

User CVs

CV5	1.00
CV9	0.00
CV18	0.00

Acquisition Timing

Frequency	128
Phase	128
phase field of view	0.66
phase correct	Yes
swap phase & frequency	R/L
autoshim	Auto

Range / Prescription

field of view	35.0
slice thickness	2.7
slice spacing	0.0
number of slices	59

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.
If you notice that the slice thickness is changed from 2.7 to 2.9 you can fix this bug by turning fat sat off then turning it back on again.

SERIES 8. Ax T2 FSE with Fat Sat

Patient (RF)

Coil	8HRBRAIN

Scan Timing

Number of echoes	1
TE	80.0
TR	4000.0
ETL	12
BW1	19.23

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	FRFSE-XL
Imaging Options	FC, TRF, Fast, FR

Additional Parameters

User CVs

CV7	0.00
CV8	0.00
CV14	0.00
CV19	1.00
CV21	1.00
CV22	1.00

Acquisition Timing

Frequency	256
Phase	256
NEX	1.00
phase field of view	1.00
phase correct	Yes
Flow comp direction	Slice
swap phase & frequency	A/P
autoshim	Auto

Range / Prescription

field of view	24.0
slice thickness	4.0
slice spacing	Intleave
number of slices	44

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.

SERIES 9. Enhanced Axial DTI

Patient (RF)

Coil	8HRBRAIN

Scan Timing

TE	Minimum
TR	9050.0

Imaging

Scan plane	AXIAL
Mode	2D
Pulse sequence	Spin Echo
Imaging Options	EPI, DIFF, Asset

Additional Parameters

User CVs

CV5	1.00
CV9	0.00
CV18	0.00

Acquisition Timing

Frequency	128
Phase	128
phase field of view	0.66
phase correct	Yes
swap phase & frequency	R/L
autoshim	Auto

Range / Prescription

field of view	35.0
slice thickness	2.7
slice spacing	0.0
number of slices	59

Comments Please do not oblique. Please do not reduce the number of slices.
Please do not adjust protocol values.
If you notice that the slice thickness is changed from 2.7 to 2.9 you can fix this bug by turning fat sat off then turning it back on again.