

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	Seq, EDR, TRF, Fast, SS, FR, ARC
Plane	3-PLANE		
Series Description	3-Plane Localizer		
SCAN TIMING		SCAN RANGE	
TE	Minimum	FOV	24.0
Number of Echoes	1	Slice Thickness	10.0
TR	Minimum	Slice Spacing	5.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	288
		Phase	128
		Freq DIR	Unswap
		# of Acq. Before Pause	0
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
GATING/TRIGGER		USER CVS	
Auto Trigger Type	Off	User CV1	1.00
FMRI		MULTI-PHASE	
PSD Trigger	Internal	Seperate Series	0
View Order	Bottom/Up	Mask Phase	0
# of Repetitions REST	0	Mask Pause	0
# of Repetitions ACTIVE	0		
SAT		DIFFUSION	
Tag Type	None	Recon All Images	On
TRICKS		CONTRAST	
Pause On/Off	On	Contrast Yes/No	No
Auto Subtract	0		
Auto SCIC	Off		

3-Plane Localizer

3-Plane Localizer

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	NPW, EDR, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAGITTAL T1W	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
TE	Min Full	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	450.0	Freq	320
Receiver Bandwidth	41.67	Phase	224
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	None	NEX	2.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV4	1.00
View Order	Bottom/Up	TR Min	400.0
# of Repetitions REST	0	TR Max	600.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	CONTRAST	
		Contrast Yes/No	No

SAGITTAL T1W

SAGITTAL T1W

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Head	Imaging Options	FC, EDR, TRF, Fast, ARC, T2flair
Plane	OBLIQUE		
Series Description	AXIAL T2W FLAIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	22.0
TE	140.0	Slice Thickness	5.0
Number of Echoes	1	Slice Spacing	1.0
TR	8800.0		
TI	2533	ACQ TIMING	
Echo Train Length	20	Freq	320
Receiver Bandwidth	15.63	Phase	192
IMAGE ENHANCE		Freq DIR	A/P
Filter Choice	None	Fat Shift DIR	Normal (A)
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	Flow Direction	Slice
# of Repetitions REST	0	Compensation	
# of Repetitions ACTIVE	0	USER CVS	
SAT		User CV18	1.00
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	2	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

AXIAL T2W FLAIR

AXIAL T2W FLAIR

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Head	Imaging Options	FC, EDR, TRF, Fast, FR
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL T2W	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
Flip Angle	160	Slice Spacing	1.0
TE	105.0	ACQ TIMING	
Number of Echoes	1	Freq	352
TR	4547.0	Phase	256
Echo Train Length	19	Freq DIR	A/P
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		Flow Direction Compensation	Slice
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV18	1.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	TR Min	2500.0
SAT		TR Max	11000.0
SAT Location	I	MULTI-PHASE	
Tag Type	None	Seperate Series	0
TRICKS		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	DIFFUSION	
Auto SCIC	2	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

AXIAL T2W

AXIAL T2W

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SWAN
Coil Configuration	GEM Head	Imaging Options	FC, Fast, ZIP512, ZIP2, Asset
Plane	OBLIQUE		
Series Description	3D AX SWAN		
SCAN TIMING		SCAN RANGE	
Flip Angle	25	FOV	24.0
TE	50.0	Slice Thickness	2.6
Number of Echoes	8	Location per Slab	60
TR	Minimum	Overlap Locations	0
Receiver Bandwidth	35.71		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	320
		Phase	192
GATING/TRIGGER		Freq DIR	A/P
Auto Trigger Type	Off	Phase FOV	0.75
		Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	MULTI-PHASE	
# of Repetitions ACTIVE	0	Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

3D AX SWAN

3D AX SWAN

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Head	Imaging Options	EPI, DIFF, Asset
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax DWI ALL B-1000	FOV	24.0
SCAN TIMING		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	9400.0	Freq	160
Number of Shots	1	Phase	192
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	None	Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	Yes
FMRI		USER CVS	
PSD Trigger	Internal	User CV0	1.00
View Order	Bottom/Up	User CV5	1.00
# of Repetitions REST	0	User CV7	1.00
# of Repetitions ACTIVE	0	User CV17	1.00
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
TRICKS		Mask Phase	0
Pause On/Off	On	Mask Pause	0
Auto Subtract	0	DIFFUSION	
Auto SCIC	2	Optimized TE	Yes
		Diffusion Directions	All
		Number of Diffusion Directions	3
		Number of T2 Images	1
		Dual Spin Echo	Off
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

Ax DWI ALL B-1000

Ax DWI ALL B-1000

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Fiesta
Coil Configuration	GEM Head	Imaging Options	EDR, Fast, ZIP512, ZIP2
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL FIESTA	FOV	20.0
SCAN TIMING		Slice Thickness	0.8
Flip Angle	45	Location per Slab	170
TE	Minimum	Overlap Locations	0
Number of Echoes	1	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	256
IMAGE ENHANCE		Phase	192
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	2.00
Auto Trigger Type	Off	Phase FOV	0.90
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV23	100.00
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	CONTRAST	
		Contrast Yes/No	No

AXIAL FIESTA

AXIAL FIESTA

Protocol: adult_head_BRAIN TRIGEMINAL

AXIAL T1W FSE PRE 3MM	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	PROPELLER
	Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	AXIAL T1W FSE PRE 3MM	FOV	18.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	120	Slice Spacing	0.3
	Number of Echoes	1	ACQ TIMING	
	TR	484.0	Freq	256
	Echo Train Length	8	Freq DIR	A/P
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	1.50
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	No
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV5	1.00
	View Order	Bottom/Up	TR Min	400.0
	# of Repetitions REST	0	TR Max	600.0
	# of Repetitions ACTIVE	0	MULTI-PHASE	
	SAT		Seperate Series	0
	Tag Type	None	Mask Phase	0
	TRICKS		Mask Pause	0
	Pause On/Off	On	DIFFUSION	
	Auto Subtract	0	Recon All Images	On
	Auto SCIC	2	CONTRAST	
	OTHERS		Contrast Yes/No	No
Protocol Notes	38			

AXIAL T1W FSE PRE 3MM

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	PROPELLER
Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR/OBL T2W PROPELLER	FOV	18.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.3
Number of Echoes	1	ACQ TIMING	
TR	5616.0	Freq	288
Echo Train Length	21	Freq DIR	S/I
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (I)
IMAGE ENHANCE		NEX	2.00
Filter Choice	None	Auto Shim	Auto
GATING/TRIGGER		Phase Correction	No
Auto Trigger Type	Off	USER CVS	
FMRI		User CV5	1.00
PSD Trigger	Internal	User CV19	1.00
View Order	Bottom/Up	TR Min	3000.0
# of Repetitions REST	0	TR Max	10000.0
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
Fat/Water Saturation	Fat	Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	2	Contrast Yes/No	No

COR/OBL T2W PROPELLER

COR/OBL T2W PROPELLER

Protocol: adult_head_BRAIN TRIGEMINAL

COR/OBL T1W FSE PRE 3MM	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	PROPELLER
	Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast, ARC
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	COR/OBL T1W FSE PRE 3MM	FOV	18.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	120	Slice Spacing	0.3
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	430.0	Freq DIR	S/I
	Echo Train Length	3	Fat Shift DIR	Normal (I)
	Receiver Bandwidth	50.00	NEX	2.00
	IMAGE ENHANCE		# of Acq. Before Pause	0
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	No
	Auto Trigger Type	Off	USER CVS	
	FMRI		TR Min	400.0
	PSD Trigger	Internal	TR Max	600.0
	View Order	Bottom/Up	MULTI-PHASE	
	# of Repetitions REST	0	Seperate Series	0
	# of Repetitions ACTIVE	0	Mask Phase	0
	SAT		Mask Pause	0
	Tag Type	None	DIFFUSION	
	TRICKS		Recon All Images	On
Pause On/Off	On	CONTRAST		
Auto Subtract	0	Contrast Yes/No	No	
Auto SCIC	2			
OTHERS				
Protocol Notes	38			

COR/OBL T1W FSE PRE 3MM

Protocol: adult_head_BRAIN TRIGEMINAL

AXIAL T2W 3MM PROP	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast, ZIP512, ARC
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	AXIAL T2W 3MM PROP	FOV	18.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	160	Slice Spacing	0.3
	TE	102.0	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	8264.0	Phase	192
	Echo Train Length	21	Freq DIR	A/P
	Receiver Bandwidth	22.73	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	None	Phase FOV	1.00
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	No
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV22	1.00
	View Order	Bottom/Up	TR Min	3000.0
	# of Repetitions REST	0	TR Max	10000.0
	# of Repetitions ACTIVE	0	MULTI-PHASE	
	SAT		Seperate Series	0
	Tag Type	None	Mask Phase	0
	TRICKS		Mask Pause	0
	Pause On/Off	On	DIFFUSION	
	Auto Subtract	0	Recon All Images	On
	Auto SCIC	2	CONTRAST	
		Contrast Yes/No	No	

AXIAL T2W 3MM PROP

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast, ZIP512, ARC
Plane	OBLIQUE		
Series Description	AXIAL T2W FS 3MM PROP		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	18.0
TE	102.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.3
TR	9376.0		
Echo Train Length	21	ACQ TIMING	
Receiver Bandwidth	22.73	Freq	256
		Phase	192
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	3.00
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	3000.0
		TR Max	10000.0
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	Off	Seperate Series	0
		Mask Phase	0
		Mask Pause	0
FMRI		DIFFUSION	
PSD Trigger	Internal	Recon All Images	On
View Order	Bottom/Up		
# of Repetitions REST	0		
# of Repetitions ACTIVE	0		
SAT		CONTRAST	
Tag Type	None	Contrast Yes/No	No
Fat/Water Saturation	Fat		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

AXIAL T2W FS 3MM PROP

AXIAL T2W FS 3MM PROP

Protocol: adult_head_BRAIN TRIGEMINAL

COR/OBL T1W FS FSE POST 3MM	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	PROPELLER
	Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast, ARC
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	COR/OBL T1W FS FSE POST 3MM	FOV	18.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	120	Slice Spacing	0.3
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	542.0	Freq DIR	S/I
	Echo Train Length	5	Fat Shift DIR	Normal (I)
	Receiver Bandwidth	50.00	NEX	2.00
	IMAGE ENHANCE		# of Acq. Before Pause	0
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	No
	Auto Trigger Type	Off	USER CVS	
	FMRI		User CV19	1.00
	PSD Trigger	Internal	TR Min	400.0
	View Order	Bottom/Up	TR Max	600.0
	# of Repetitions REST	0	MULTI-PHASE	
	# of Repetitions ACTIVE	0	Seperate Series	0
	SAT		Mask Phase	0
	Tag Type	None	Mask Pause	0
	Fat/Water Saturation	Fat	DIFFUSION	
TRICKS		Recon All Images	On	
Pause On/Off	On	CONTRAST		
Auto Subtract	0	Contrast Yes/No	Yes	
Auto SCIC	2			
OTHERS				
Protocol Notes	38			

COR/OBL T1W FS FSE POST 3MM

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	PROPELLER
Coil Configuration	GEM Head	Imaging Options	EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL T1W FS FSE POST 3MM	FOV	18.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	120	Slice Spacing	0.3
Number of Echoes	1	ACQ TIMING	
TR	610.0	Freq	256
Echo Train Length	8	Freq DIR	A/P
Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	1.50
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV5	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	TR Min	400.0
# of Repetitions ACTIVE	0	TR Max	725.0
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat	Mask Phase	0
TRICKS		Mask Pause	0
Pause On/Off	On	DIFFUSION	
Auto Subtract	0	Recon All Images	On
Auto SCIC	2	CONTRAST	
OTHERS		Contrast Yes/No	Yes
Protocol Notes	38		

AXIAL T1W FS FSE POST 3MM

AXIAL T1W FS FSE POST 3MM

Protocol: adult_head_BRAIN TRIGEMINAL

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	BRAVO
Coil Configuration	GEM Head	Imaging Options	EDR, Fast, ZIP512, ARC, IrP
Plane	OBLIQUE	SCAN RANGE	
Series Description	AXIAL BRAVO POST whole brain	FOV	24.0
SCAN TIMING		Slice Thickness	1.0
Flip Angle	12	Location per Slab	176
Number of Echoes	1	Overlap Locations	0
TI	450	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	240
IMAGE ENHANCE		Phase	240
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	0.90
MULTI-PHASE		Auto Shim	Auto
Seperate Series	0	Phase Correction	No
Trigger Delay without AV	0	FMRI	
Mask Phase	0	PSD Trigger	Internal
Mask Pause	0	View Order	Bottom/Up
DIFFUSION		# of Repetitions REST	0
Recon All Images	On	# of Repetitions ACTIVE	0
CONTRAST		SAT	
Contrast Yes/No	Yes	Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	38

AXIAL BRAVO POST whole brain

AXIAL BRAVO POST whole brain