

Protocol: adult_head_BRAIN IAC WO CONT

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

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CORONAL QUICK LOOK	PATIENT POSITION		IMAGING PARAMETERS		CORONAL QUICK LOOK
	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	CORONAL QUICK LOOK	FOV	22.0	
	SCAN TIMING		Slice Thickness	3.0	
	Flip Angle	160	Slice Spacing	0.0	
	TE	105.0	ACQ TIMING		
	Number of Echoes	1	Freq	256	
	TR	1200.0	Phase	160	
	Echo Train Length	17	Freq DIR	S/I	
	Receiver Bandwidth	41.67	Fat Shift DIR	Normal (I)	
	IMAGE ENHANCE		NEX	0.50	
	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 CV17	1.00	
	# of Repetitions REST	0	User CV18	1.00	
	# of Repetitions ACTIVE	0	User CV22	1.00	
	SAT		MULTI-PHASE		
	SAT Location	I	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		

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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	192
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

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3D Ax T2 Cube FS	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Cube
	Coil Configuration	GEM Head	Imaging Options	FC, EDR, Fast, ZIP512, ZIP2, FR, ARC
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	3D Ax T2 Cube FS	FOV	18.0
	SCAN TIMING		Slice Thickness	0.8
	TE	155.0	Location per Slab	52
	Number of Echoes	1	Overlap Locations	0
	TR	1700.0	ACQ TIMING	
	Echo Train Length	130	Freq	256
	Receiver Bandwidth	31.25	Phase	256
	IMAGE ENHANCE		Freq DIR	A/P
	Filter Choice	None	NEX	4.00
	GATING/TRIGGER		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	Flow Direction	Slice
	View Order	Bottom/Up	Compensation	
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV5	1.00
	SAT		User CV22	2.00
	Tag Type	None	MULTI-PHASE	
	Fat/Water Saturation	Fat	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	

3D Ax T2 Cube FS

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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	2546	ACQ TIMING	
Echo Train Length	20	Freq	320
Receiver Bandwidth	31.25	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

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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	416
TR	5613.0	Phase	256
Echo Train Length	16	Freq DIR	A/P
Receiver Bandwidth	31.25	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

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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	56
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

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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

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CORONAL T2W 2MM	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	CORONAL T2W 2MM	FOV	20.0
	SCAN TIMING		Slice Thickness	2.0
	Flip Angle	160	Slice Spacing	0.0
	TE	105.0	ACQ TIMING	
	Number of Echoes	1	Freq	288
	TR	4319.0	Phase	192
	Echo Train Length	22	Freq DIR	S/I
	Receiver Bandwidth	19.23	Fat Shift DIR	Normal (I)
	IMAGE ENHANCE		NEX	6.00
	Filter Choice	None	Phase FOV	0.90
	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	

CORONAL T2W 2MM

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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 2MM	FOV	18.0
SCAN TIMING		Slice Thickness	2.0
Flip Angle	160	Slice Spacing	0.0
TE	105.0	ACQ TIMING	
Number of Echoes	1	Freq	288
TR	2731.0	Phase	192
Echo Train Length	16	Freq DIR	A/P
Receiver Bandwidth	20.83	Fat Shift DIR	Normal (A)
IMAGE ENHANCE		NEX	6.00
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 2MM

AXIAL T2W 2MM

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AXIAL T1W NO GAD	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 T1W NO GAD	FOV	18.0
	SCAN TIMING		Slice Thickness	2.0
	Flip Angle	160	Slice Spacing	0.0
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	280
	TR	530.0	Phase	192
	Echo Train Length	3	Freq DIR	A/P
	Receiver Bandwidth	25.00	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	6.00
	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	TR Min	300.0
	View Order	Bottom/Up	TR Max	750.0
	# 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	2	Contrast Yes/No	No

AXIAL T1W NO GAD