

Protocol: adult_head_MRI SINUS W/WO

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, Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE		
Series Description	3-Plane Localizer		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	24.0
Number of Echoes	1	Slice Thickness	10.0
TR	600.0	Slice Spacing	5.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	288
		Phase	128
GATING/TRIGGER		Freq DIR	Unswap
Auto Trigger Type	Off	# of Acq. Before Pause	0
		Phase FOV	1.00
FMRI		Auto Shim	Auto
PSD Trigger	Internal	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV1	1.00
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
Tag Type	None	Mask Phase	0
		Mask Pause	0
TRICKS		DIFFUSION	
Pause On/Off	On	Recon All Images	On
Auto Subtract	0	CONTRAST	
Auto SCIC	Off	Contrast Yes/No	No

3-Plane Localizer

3-Plane Localizer

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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	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	467.0	Freq	352
Receiver Bandwidth	41.67	Phase	256
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	None	NEX	2.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	Auto
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV4	1.00
# of Repetitions REST	0	TR Min	400.0
# of Repetitions ACTIVE	0	TR Max	600.0
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	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

SAGITTAL T1W

SAGITTAL T1W

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Ax DWI ALL B-1000	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

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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	18.0
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	256
Filter Choice	None	Freq DIR	A/P
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	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

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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	477.0	Freq	256
	Echo Train Length	3	Freq DIR	A/P
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	2.00
	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
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AXIAL T1W FSE PRE 3MM

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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, Seq, EDR, TRF, Fast, ZIP512, IrP
Plane	OBLIQUE	PSD Name	frfse-xl
Series Description	AX STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	18.0
TE	49.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.3
TR	4358.0		
TI	160	ACQ TIMING	
Echo Train Length	13	Freq	256
Receiver Bandwidth	41.67	Phase	192
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	1.00
		# of Acq. Before Pause	0
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Slice
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV22	1.00
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

AX STIR

AX STIR

Protocol: adult_head_MRI SINUS W/WO

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	477.0	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			
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COR/OBL T1W FSE PRE 3MM

COR/OBL T1W FSE PRE 3MM

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COR T1W	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	COR T1W	FOV	18.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	160	Slice Spacing	0.6
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	460.0	Phase	224
	Echo Train Length	3	Freq DIR	S/I
	Receiver Bandwidth	15.63	Fat Shift DIR	Normal (I)
	IMAGE ENHANCE		NEX	2.00
	Filter Choice	None	# of Acq. Before Pause	0
	GATING/TRIGGER		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Auto
	FMRI		Phase Correction	Yes
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV22	1.00
	# of Repetitions REST	0	TR Min	400.0
	# of Repetitions ACTIVE	0	TR Max	600.0
	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	Recon All Images	On	
		CONTRAST		
		Contrast Yes/No	No	

COR T1W

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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	638.0	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
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AXIAL T1W FS FSE POST 3MM

AXIAL T1W FS FSE POST 3MM

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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	EDR, TRF, Fast, ZIP512, ARC
Plane	OBLIQUE		
Series Description	COR T1W FS POST		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	18.0
TE	Min Full	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.6
TR	531.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	20.83	Freq	256
		Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (I)
		NEX	2.00
		# of Acq. Before Pause	0
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	Yes
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV19	1.00
		User CV22	1.00
		TR Min	400.0
		TR Max	600.0
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	Yes
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

COR T1W FS POST

COR T1W FS POST

Protocol: adult_head_MRI SINUS W/WO

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	FOV	25.6
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	256
IMAGE ENHANCE		Phase	256
Filter Choice	None	Freq DIR	R/L
GATING/TRIGGER		NEX	1.00
Auto Trigger Type	Off	Phase FOV	1.00
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

AXIAL BRAVO POST