

Protocol: adult_head_CNISandardAnatomical_20110317130409100_7

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	Nova32ch	Imaging Options	Seq, EDR, Fast, SS, ARC
Plane	3-PLANE		
Series Description	3Plane Loc SSFSE		
SCAN TIMING		SCAN RANGE	
TE	80.0	FOV	24.0
Number of Echoes	1	Slice Thickness	8.0
TR	Minimum	Slice Spacing	0.0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	384
		Phase	160
		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 CV2	240.00
FMRI		MULTI-PHASE	
PSD Trigger	Internal	# of Acquisition	0
Slice Order	Interleaved	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		

3Plane Loc SSFSE

3Plane Loc SSFSE

T1w 1mm	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	BRAVO
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, IrP, ARC
	Plane	AXIAL		
	Series Description	T1w 1mm		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	12	FOV	24.0
	Number of Echoes	1	Slice Thickness	1.0
	TI	450	Location per Slab	160
	Receiver Bandwidth	31.25	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	240
			Phase	240
			Freq DIR	A/P
			NEX	0.50
			Phase FOV	0.90
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	DIFFUSION		TRICKS	
	Recon All Images	On	Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
	CONTRAST			
	Contrast Yes/No	No		

T1w 1mm

T1w .9mm	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	BRAVO
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, IrP, ARC
	Plane	AXIAL		
	Series Description	T1w .9mm		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	12	FOV	23.0
	Number of Echoes	1	Slice Thickness	0.9
	TI	450	Location per Slab	190
	Receiver Bandwidth	41.67	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	256
			Phase	256
			Freq DIR	A/P
			NEX	0.50
			Phase FOV	0.90
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	DIFFUSION		TRICKS	
	Recon All Images	On	Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
	CONTRAST			
	Contrast Yes/No	No		

T1w .9mm

T1w .8mm	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	BRAVO
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, IrP, ARC
	Plane	AXIAL		
	Series Description	T1w .8mm		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	12	FOV	24.0
	Number of Echoes	1	Slice Thickness	0.8
	TI	450	Location per Slab	210
	Receiver Bandwidth	41.67	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	300
			Phase	300
			Freq DIR	A/P
			NEX	0.50
			Phase FOV	0.90
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
Mask Phase	0			
Mask Pause	0			
DIFFUSION		TRICKS		
Recon All Images	On	Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	Off	
CONTRAST		OTHERS		
Contrast Yes/No	No	Protocol Notes	Need 2-3 repeats (averaged in post-processing) to get good SNR.	

T1w .8mm

T1w .7mm sag	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	BRAVO
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, IrP, ARC
	Plane	SAGITTAL		
	Series Description	T1w .7mm sag		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	12	FOV	23.1
	Number of Echoes	1	Slice Thickness	0.7
	TI	450	Location per Slab	240
	Receiver Bandwidth	41.67	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	330
			Phase	330
			Freq DIR	S/I
			NEX	0.50
			Phase FOV	1.00
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	DIFFUSION		TRICKS	
	Recon All Images	On	Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
	CONTRAST		OTHERS	
	Contrast Yes/No	No	Protocol Notes	Need 3-4 repeats (averaged in post-processing) to get good SNR.

T1w .7mm sag

T1w .7mm ax	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	BRAVO
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, IrP, ARC
	Plane	AXIAL		
	Series Description	T1w .7mm ax		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	12	FOV	23.1
	Number of Echoes	1	Slice Thickness	0.7
	TI	450	Location per Slab	240
	Receiver Bandwidth	41.67	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	330
			Phase	330
			Freq DIR	A/P
			NEX	0.50
			Phase FOV	0.90
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	DIFFUSION		TRICKS	
	Recon All Images	On	Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
	CONTRAST		OTHERS	
	Contrast Yes/No	No	Protocol Notes	Need 3-4 repeats (averaged in post-processing) to get good SNR.

T1w .7mm ax

T2w .8mm sag	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Cube T2
	Coil Configuration	Nova32ch	Imaging Options	EDR, Fast, FR, ARC
	Plane	SAGITTAL		
	Series Description	T2w .8mm sag		
	SCAN TIMING		SCAN RANGE	
	Number of Echoes	1	FOV	25.6
	TR	2500.0	Slice Thickness	0.8
	Echo Train Length	120	Location per Slab	220
	Receiver Bandwidth	62.50	Overlap Locations	0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	320
			Phase	320
			Freq DIR	S/I
			NEX	1.00
			Phase FOV	1.00
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		USER CVS	
	Auto Trigger Type	Off	User CV23	1.00
T2w .8mm sag	FMRI		MULTI-PHASE	
	PSD Trigger	Internal	# of Acquisition	0
	Slice Order	Interleaved	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
T2w .8mm sag	Auto Subtract	0		
	Auto SCIC	Off		
	OTHERS			
	Protocol Notes	To prevent slab wrap, cover all anatomy from side to side.		

ASSET calibration	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Gradient Echo
	Coil Configuration	8HRBRAIN	Imaging Options	Fast, Calib
	Plane	AXIAL		
	Series Description	ASSET calibration		
	SCAN TIMING		SCAN RANGE	
	Number of Echoes	1	FOV	30.0
			Slice Thickness	6.0
			Slice Spacing	0.0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq DIR	R/L
			Auto Shim	Auto
			Phase Correction	No
	GATING/TRIGGER		FMRI	
	Auto Trigger Type	Off	Paradigm String	None
			PSD Trigger	Internal
			Slice Order	Interleaved
			View Order	Bottom/Up
			# of Repetitions REST	0
			# of Repetitions ACTIVE	0
	MULTI-PHASE		SAT	
	# of Acquisition	0	Tag Type	None
	Seperate Series	0		
	Mask Phase	0		
	Mask Pause	0		
	DIFFUSION		TRICKS	
	Recon All Images	On	Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
	CONTRAST		OTHERS	
	Contrast Yes/No	No	Protocol Notes	ASSET&PURE

ASSET calibration

HOS WB HRBRAIN	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Gradient Echo
	Coil Configuration	8HRBRAIN	Imaging Options	None
	Plane	AXIAL	PSD Name	sprl_hos
	Series Description	HOS WB HRBRAIN		
	SCAN TIMING		SCAN RANGE	
	Flip Angle	60	FOV	24.0
	TE	7.0	Slice Thickness	5.8
	Number of Echoes	1	Slice Spacing	0.0
	TR	1558.0		
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	64
			Freq DIR	A/P
			NEX	1.00
			Auto Shim	Off
			Phase Correction	No
	GATING/TRIGGER		USER CVS	
	Auto Trigger Type	Off	User CV0	2.00
			User CV1	2.00
			User CV3	99.00
			User CV4	64.00
			User CV5	0.50
	FMRI		MULTI-PHASE	
	PSD Trigger	Internal	# of Acquisition	0
	Slice Order	Interleaved	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		

HOS WB HRBRAIN

DTI 2mm 60 Directions	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	8HRBRAIN	Imaging Options	EPI, DIFF, Asset
	Plane	AXIAL		
	Series Description	DTI 2mm 60 Directions		
	SCAN TIMING		SCAN RANGE	
	TE	Minimum	FOV	25.6
	TR	8500.0	Slice Thickness	2.0
	Number of Shots	1	Slice Spacing	0.0
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	128
			Phase	128
			Freq DIR	R/L
			Phase FOV	1.00
			Auto Shim	Off
			Phase Correction	Yes
	GATING/TRIGGER		USER CVS	
	Auto Trigger Type	Off	User CV5	1.00
			User CV18	1.00
	FMRI		MULTI-PHASE	
	PSD Trigger	Internal	# of Acquisition	0
	Slice Order	Interleaved	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	Optimized TE	Yes
	Fat/Water Saturation	Fat	Diffusion Directions	Tensor
			Number of Diffusion Directions	60
			Number of T2 Images	5
			Dual Spin Echo	On
			Diffusion Tenser	No Selection
			Processing Output	
			Recon All Images	Off
	TRICKS		CONTRAST	
	Pause On/Off	On	Contrast Yes/No	No
	Auto Subtract	0		
	Auto SCIC	Off		