

MRI PERFORM
DISCOVERY 750 3T
Head protocols

7200 sherbrooke street quest
MONTREAL
H4B1R2

Protocol: adult_spine_20190130_spine_generic_without_FOCUS_2019013012151030_7

LOCALIZER	PATIENT POSITION		IMAGING PARAMETERS		LOCALIZER
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	HNS CTL Spine	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC	
	Plane	3-PLANE			
	Series Description	Localizer			
SCAN TIMING			SCAN RANGE		
	TE	80.0	FOV	48.0	
	TR	800.0	Slice Thickness	10.0	
	Receiver Bandwidth	83.33	Slice Spacing	5.0	
IMAGE ENHANCE			ACQ TIMING		
	Filter Choice	None	Freq	384	
			Phase	160	
			Freq DIR	Unswap	
GATING/TRIGGER			# of Acq. Before Pause	0	
	Auto Trigger Type	Off	Phase FOV	1.00	
FMRI			Auto Shim	Auto	
	PSD Trigger	Internal	Phase Correction	No	
	Slice Order	Interleaved			
	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	

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Cal HNS CTL123	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	SPGR
	Coil Configuration	HNS CTL Spine	Imaging Options	EDR, Fast, ZIP2, Calib
	Plane	SAGITTAL	SCAN RANGE	
	Series Description	Cal HNS CTL123	FOV	48.0
	SCAN TIMING		Slice Thickness	15.0
	Number of Echoes	1	ACQ TIMING	
	IMAGE ENHANCE		Freq DIR	S/I
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	No
	Auto Trigger Type	Off	FMRI	
	MULTI-PHASE		PSD Trigger	Internal
	Seperate Series	0	Slice Order	Interleaved
	Mask Phase	0	View Order	Bottom/Up
	Mask Pause	0	# of Repetitions REST	0
	DIFFUSION		# of Repetitions ACTIVE	0
	Recon All Images	On	SAT	
	CONTRAST		Tag Type	None
	Contrast Yes/No	No	TRICKS	
			Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off

Cal HNS CTL123

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Protocol: adult_spine_20190130_spine_generic_without_FOCUS_2019013012151030_7

T1w	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	SPGR
	Coil Configuration	HNS CTL Spine:HNS Head/Neck/Chest	Imaging Options	EDR, Fast, IrP, Asset
	Plane	SAGITTAL	SCAN RANGE	
	Series Description	T1w	FOV	32.0
	SCAN TIMING		Slice Thickness	1.0
	Flip Angle	9	Location per Slab	192
	TE	Minimum	Overlap Locations	0
	TI	1000	ACQ TIMING	
	Receiver Bandwidth	142.86	Freq	320
	IMAGE ENHANCE		Phase	256
	Filter Choice	A	Freq DIR	S/I
	GATING/TRIGGER		NEX	1.00
	Auto Trigger Type	Off	Phase FOV	0.80
	FMRI		Auto Shim	Auto
	PSD Trigger	Internal	Phase Correction	No
	Slice Order	Interleaved	USER CVS	
	View Order	Bottom/Up	User CV6	2.00
	# of Repetitions REST	0	User CV23	100.00
	# of Repetitions ACTIVE	0	MULTI-PHASE	
DIFFUSION			Seperate Series	0
Recon All Images		On	Mask Phase	0
CONTRAST			Mask Pause	0
Contrast Yes/No		No	TRICKS	
			Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
			OTHERS	
			Protocol Notes	Coil: HNS 35FOV rhimsz: 320 rhrcxres: 320 rhrcyres: 256

T1w

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube
Coil Configuration	HNS CTL Spine;HNS Head/Neck/Chest	Imaging Options	FC, NPW, EDR, Fast, FR, ARC
Plane	SAGITTAL		
Series Description	T2w		
SCAN TIMING			
TE	120.0	FOV	25.6
TR	2500.0	Slice Thickness	0.8
Echo Train Length	78	Location per Slab	64
Receiver Bandwidth	83.33	Overlap Locations	0
IMAGE ENHANCE			
Filter Choice	A		
GATING/TRIGGER			
Auto Trigger Type	Off		
FMRI			
PSD Trigger	Internal	ACQ TIMING	
Slice Order	Interleaved	Freq	320
View Order	Bottom/Up	Phase	320
# of Repetitions REST	0	Freq DIR	S/I
# of Repetitions ACTIVE	0	NEX	1.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		
OTHERS			
Protocol Notes	Coil: HNS Head rhimsz=320 rhrcxres=256 rhrcyres=256		
		USER CVS	
		User CV22	2.00
		MULTI-PHASE	
		Seperate Series	0
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

T2w

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DWI

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS CTL Spine
Plane	OBLIQUE
Series Description	DWI
SCAN TIMING	
TE	Minimum
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	On
Trigger Type	0
Minimum Trigger Delay	1
Cardiac Phase	1
Cardiac Slices	1
FMRI	
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
SAT Location	A
SAT Location	P
Tag Type	None
Fat/Water Saturation	Fat
TRICKS	
# of RR Intervals	5
Trigger Delay	15
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Coil: HNS CTL12 rhmsize: 96 rhrcxres: 86 rhrcyres: 43

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	Spin Echo
Imaging Options	Gat, EDR, EPI, DIFF
SCAN RANGE	
FOV	8.6
Slice Thickness	5.0
Slice Spacing	0.0
ACQ TIMING	
Freq	96
Phase	48
Freq DIR	R/L
Phase FOV	0.50
Auto Shim	On
Phase Correction	Yes
USER CVS	
User CV5	1.00
User CV17	1.00
User CV18	1.00
MULTI-PHASE	
Seperate Series	0
Inter-Delay	Minimum
Mask Phase	0
Mask Pause	0
DIFFUSION	
Optimized TE	Yes
Diffusion Directions	Tensor
Number of Diffusion Directions	30
Number of T2 Images	5
Dual Spin Echo	Off
Diffusion Tenser Processing Output	No Selection
Recon All Images	Off
CONTRAST	
Contrast Yes/No	No

DWI

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GRE-MT1

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS CTL Spine
Plane	OBLIQUE
Series Description	GRE-MT1
SCAN TIMING	
Flip Angle	9
TE	4.0
TR	35.0
Receiver Bandwidth	41.67
IMAGE ENHANCE	
Filter Choice	A
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Coil: HNS CTL 12 rhmsize: 256 rhrcxres: 230 rhrcyres: 230

GRE-MT1

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	SPGR
Imaging Options	EDR, MgT
SCAN RANGE	
FOV	17.2
Slice Thickness	5.0
ACQ TIMING	
Freq	192
Phase	192
Freq DIR	R/L
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
USER CVS	
User CV1	1200.00
User CV2	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

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GRE-MT0

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS CTL Spine
Plane	OBLIQUE
Series Description	GRE-MT0
SCAN TIMING	
Flip Angle	9
TE	4.0
TR	35.0
Receiver Bandwidth	41.67
IMAGE ENHANCE	
Filter Choice	A
GATING/TRIGGER	
Auto Trigger Type	Off
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

GRE-MT0

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	SPGR
Imaging Options	EDR
SCAN RANGE	
FOV	17.2
Slice Thickness	5.0
ACQ TIMING	
Freq	192
Phase	192
Freq DIR	R/L
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
FMRI	
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Coil: HNS CTL 12 rhimsz: 256 rhrcxres: 230 rhrcyres: 230

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GRE-T1w

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS CTL Spine
Plane	OBLIQUE
Series Description	GRE-T1w
SCAN TIMING	
Flip Angle	15
TE	4.0
TR	15.0
Receiver Bandwidth	41.67
IMAGE ENHANCE	
Filter Choice	A
GATING/TRIGGER	
Auto Trigger Type	Off
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

GRE-T1w

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	SPGR
Imaging Options	EDR
SCAN RANGE	
FOV	17.2
Slice Thickness	5.0
ACQ TIMING	
Freq	192
Phase	192
Freq DIR	R/L
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
FMRI	
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Coil: HNS CTL 12 rhimsize: 256 rhrcxres: 230 rhrcyres: 230

GRE-T1w

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