

Protocol: adult_neck_NECK SOFT TISSUE

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, Seq, Fast
Plane	3-PLANE	SCAN RANGE	
Series Description	LOC	FOV	34.0
SCAN TIMING		Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	5.0
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
GATING/TRIGGER		Phase	128
Auto Trigger Type	Off	Freq DIR	Unswap
MULTI-PHASE		NEX	2.00
Seperate Series	0	Phase FOV	1.00
Mask Phase	0	Auto Shim	Off
Mask Pause	0	Phase Correction	No
DIFFUSION		FMRI	
Recon All Images	On	PSD Trigger	Internal
CONTRAST		Slice Order	Interleaved
Contrast Yes/No	No	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	<i>This protocol is built based on Express coil suite. Please select the appropriate coil which is available in your site and optimizing the parameters accordingly</i>

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T1	FOV	25.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	224
Echo Train Length	3	Freq DIR	Swap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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	No
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV15	2.00
View Order	Bottom/Up	User CV21	2.00
# of Repetitions REST	0	User CV22	1.00
# of Repetitions ACTIVE	0	MULTI-PHASE	
SAT		Seperate Series	0
SAT Location	S	Mask Phase	0
SAT Location	I	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	Off		

SAG T1

SAG T1

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	FC, NPW, EDR, TRF, Fast, FR, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAG T2 F/S	FOV	25.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	85.0	ACQ TIMING	
Number of Echoes	1	Freq	300
TR	3251.0	Phase	224
Echo Train Length	21	Freq DIR	A/P
Receiver Bandwidth	31.25	Fat Shift DIR	Normal (P)
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	Freq
PSD Trigger	Internal	USER CVS	
Slice Order	Interleaved	User CV15	2.00
View Order	Bottom/Up	User CV22	1.00
# of Repetitions REST	0	TR Min	2800.0
# of Repetitions ACTIVE	0	TR Max	11000.0
SAT		MULTI-PHASE	
SAT Location	S	Seperate Series	0
SAT Location	I	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

SAG T2 F/S

SAG T2 F/S

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T1	FOV	25.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	224
Echo Train Length	4	Freq DIR	Unswap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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		USER CVS	
PSD Trigger	Internal	User CV15	2.00
Slice Order	Interleaved	User CV21	2.00
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

COR T1

COR T1

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	FC, NPW, Seq, EDR, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	frfse-xl
Series Description	COR STIR	SCAN RANGE	
SCAN TIMING		FOV	25.0
Flip Angle	160	Slice Thickness	3.0
TE	42.0	Slice Spacing	0.5
Number of Echoes	1	ACQ TIMING	
TR	3500.0	Freq	288
TI	150	Phase	192
Echo Train Length	13	Freq DIR	Unswap
Receiver Bandwidth	31.25	Fat Shift DIR	Normal
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 CV21	1.00
Slice Order	Interleaved	User CV22	1.00
View Order	Bottom/Up	TR Min	3500.0
# of Repetitions REST	0	TR Max	15000.0
# 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	Off	CONTRAST	
		Contrast Yes/No	No

COR STIR

COR STIR

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX T1	FOV	18.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	192
Echo Train Length	5	Freq DIR	Unswap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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		USER CVS	
PSD Trigger	Internal	User CV15	2.00
Slice Order	Interleaved	User CV19	1.00
View Order	Bottom/Up	User CV21	2.00
# of Repetitions REST	0	User CV22	1.00
# 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	Off	Contrast Yes/No	No
OTHERS			
Protocol Notes	CLAVICLES TO PITUITARY		

AX T1

AX T1

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	FC, NPW, Seq, EDR, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	frfse-xl
Series Description	AX STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	18.0
TE	42.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	3500.0		
TI	150	ACQ TIMING	
Echo Train Length	13	Freq	288
Receiver Bandwidth	31.25	Phase	192
		Freq DIR	Unswap
IMAGE ENHANCE		Fat Shift DIR	Normal
Filter Choice	None	NEX	2.00
		Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
		USER CVS	
FMRI		User CV21	1.00
PSD Trigger	Internal	User CV22	1.00
Slice Order	Interleaved	TR Min	3500.0
View Order	Bottom/Up	TR Max	15000.0
# of Repetitions REST	0		
# of Repetitions ACTIVE	0	MULTI-PHASE	
		Seperate Series	0
SAT		Mask Phase	0
Tag Type	None	Mask Pause	0
		DIFFUSION	
TRICKS		Recon All Images	On
Pause On/Off	On	CONTRAST	
Auto Subtract	0	Contrast Yes/No	No
Auto SCIC	Off		

AX STIR

AX STIR

Protocol: adult_neck_NECK SOFT TISSUE

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	EDR, EPI, DIFF
Plane	AXIAL	SCAN RANGE	
Series Description	AX DWI	FOV	24.0
SCAN TIMING		Slice Thickness	3.0
TE	Minimum	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	8000.0	Freq	128
Number of Shots	1	Phase	128
IMAGE ENHANCE		Freq DIR	A/P
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
Slice Order	Interleaved	User CV1	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	Off	Optimized TE	Yes
OTHERS		Diffusion Directions	All
Protocol Notes	<p>* Always place a shim volume in the area of interest to improve image quality. Phase FOV should be always be < .50. # of phase encodes (phase matrix) = Freq matrix x pFOV Example: 160 (freq matrix) x .50 (pFOV) = 80 phase matrix If Slice # <=9 per 1 acquisition, system will use Fly-back RF pulse automatically which could increase SNR especially in off-center exam</p>	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

AX DWI

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	Fast, SS
Plane	OBLIQUE	SCAN RANGE	
Series Description	---Contrast---	FOV	22.0
SCAN TIMING		Slice Thickness	5.0
TE	Minimum	Slice Spacing	1.0
TR	Minimum	ACQ TIMING	
Receiver Bandwidth	83.33	Freq	128
IMAGE ENHANCE		Phase	128
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	1.0
Auto Trigger Type	Off	# of Acq. Before Pause	0
FMRI		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
Slice Order	Interleaved	Phase Correction	No
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV2	240.00
# of Repetitions ACTIVE	0	User CV13	1.00
SAT		TR Min	0.0
Tag Type	None	TR Max	0.0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	Off	Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		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	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	AX T1 FS +C	FOV	18.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	224
Echo Train Length	3	Freq DIR	Unswap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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		USER CVS	
PSD Trigger	Internal	User CV15	2.00
Slice Order	Interleaved	User CV19	1.00
View Order	Bottom/Up	User CV21	2.00
# of Repetitions REST	0	User CV22	1.00
# 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	Off	Contrast Yes/No	Yes

AX T1 FS +C

AX T1 FS +C

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T1 FS +C	FOV	25.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	224
Echo Train Length	3	Freq DIR	Unswap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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		USER CVS	
PSD Trigger	Internal	User CV15	2.00
Slice Order	Interleaved	User CV19	1.00
View Order	Bottom/Up	User CV21	2.00
# of Repetitions REST	0	User CV22	1.00
# 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	Off	Contrast Yes/No	Yes

COR T1 FS +C

COR T1 FS +C

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	HNS by GE (PosteriorHead, Face, Chest, TL)	Imaging Options	NPW, EDR, TRF, Fast, MRF
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T1 +C	FOV	25.0
SCAN TIMING		Slice Thickness	2.0
Flip Angle	160	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	478.0	Phase	224
Echo Train Length	3	Freq DIR	Unswap
Receiver Bandwidth	27.78	Fat Shift DIR	Normal
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		USER CVS	
PSD Trigger	Internal	User CV15	2.00
Slice Order	Interleaved	User CV21	2.00
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	Yes

COR T1 +C

COR T1 +C