

McLeod Pavilion

Protocol: adult_spine_Cervical Spine

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	Neck;Spine	Imaging Options	Seq, EDR, Fast, SS, ARC
Plane	3-PLANE	SCAN RANGE	
Series Description	3-Plane Localizer	FOV	30.0
SCAN TIMING		Slice Thickness	15.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	ACQ TIMING	
TR	1200.0	Freq	384
Receiver Bandwidth	83.33	Phase	128
IMAGE ENHANCE		Freq DIR	Unswap
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	
View Order	Bottom/Up	User CV2	240.00
# of Repetitions REST	0	User CV13	1.00
# 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	Off	CONTRAST	
		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	FSE-XL
Coil Configuration	Neck	Imaging Options	FC, NPW, EDR, TRF, Fast, FR
Plane	OBLIQUE		
Series Description	Sag T2 frFSE		
SCAN TIMING		SCAN RANGE	
Flip Angle	130	FOV	22.0
TE	105.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	3044.0		
Echo Train Length	19	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	380
		Phase	260
		Freq DIR	A/P
		Fat Shift DIR	Normal (P)
		NEX	4.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
IMAGE ENHANCE		USER CVS	
Filter Choice	G	User CV15	2.00
		User CV18	1.00
		User CV22	2.00
		TR Min	3000.0
		TR Max	10000.0
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	On		

Sag T2 frFSE

Sag T2 frFSE

Protocol: adult_spine_Cervical Spine

Sag T1 FSE Optimized	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	FSE-XL
	Coil Configuration	Neck;Spine	Imaging Options	NPW, EDR, TRF, Fast
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Sag T1 FSE Optimized	FOV	22.0
	SCAN TIMING		Slice Thickness	3.0
	Flip Angle	111	Slice Spacing	0.5
	TE	Min Full	ACQ TIMING	
	Number of Echoes	1	Freq	320
	TR	600.0	Phase	224
	Echo Train Length	4	Freq DIR	A/P
	Receiver Bandwidth	41.67	Fat Shift DIR	Normal (P)
	IMAGE ENHANCE		NEX	3.00
	Filter Choice	G	# of Acq. Before Pause	0
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	No
	FMRI		USER CVS	
	PSD Trigger	Internal	User CV15	2.00
	View Order	Bottom/Up	User CV16	1.00
	# of Repetitions REST	0	User CV18	1.00
	# of Repetitions ACTIVE	0	TR Min	600.0
	SAT		TR Max	900.0
	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	

Sag T1 FSE Optimized

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Neck;Spine	Imaging Options	FC, Seq, EDR, TRF, Fast, IrP
Plane	OBLIQUE	PSD Name	frfse-xl
Series Description	Sag T2 FSE STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	142	FOV	22.0
TE	68.0	Slice Thickness	3.0
Number of Echoes	1	Slice Spacing	0.5
TR	4057.0		
TI	180	ACQ TIMING	
Echo Train Length	11	Freq	288
Receiver Bandwidth	50.00	Phase	220
		Freq DIR	S/I
IMAGE ENHANCE		Fat Shift DIR	Normal (S)
Filter Choice	G	NEX	2.00
		Phase FOV	1.00
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
		Flow Direction	Freq
		Compensation	
FMRI		USER CVS	
PSD Trigger	Internal	User CV22	1.00
View Order	Bottom/Up	TR Min	2000.0
# of Repetitions REST	0	TR Max	15000.0
# of Repetitions ACTIVE	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		
Auto SCIC	Off	CONTRAST	
		Contrast Yes/No	No

Sag T2 FSE STIR

Sag T2 FSE 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	Neck;Spine	Imaging Options	FC, EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T2 FSE BLOCK	FOV	20.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	130	Slice Spacing	1.0
TE	90.0	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	5107.0	Phase	224
Echo Train Length	18	Freq DIR	R/L
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (L)
IMAGE ENHANCE		NEX	2.00
Filter Choice	G	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 CV15	2.00
# of Repetitions REST	0	User CV16	1.00
# of Repetitions ACTIVE	0	User CV22	1.00
SAT		TR Min	2500.0
SAT Location	A	TR Max	11000.0
SAT Location	S	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

Ax T2 FSE BLOCK

Ax T2 FSE BLOCK

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Protocol: adult_spine_Cervical Spine

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	MERGE
Coil Configuration	Neck;Spine	Imaging Options	FC, EDR, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	2D T2* MERGE THRU SPACES	FOV	20.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	20	Slice Spacing	0.0
Number of Echoes	3	ACQ TIMING	
TR	557.0	Freq	280
Receiver Bandwidth	41.67	Phase	200
IMAGE ENHANCE		Freq DIR	R/L
Filter Choice	A	NEX	2.00
GATING/TRIGGER		Phase FOV	1.00
Auto Trigger Type	Off	Auto Shim	On
FMRI		Phase Correction	No
PSD Trigger	Internal	USER CVS	
View Order	Bottom/Up	User CV8	1.00
# of Repetitions REST	0	User CV19	2.00
# of Repetitions ACTIVE	0	User CV20	1.00
SAT		TR Min	400.0
Tag Type	None	TR Max	1200.0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

2D T2* MERGE THRU SPACES

2D T2* MERGE THRU SPACES

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	MERGE
Coil Configuration	Neck;Spine	Imaging Options	FC, NPW, EDR, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	COR T2* GRE TRAUMA	FOV	22.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	20	Slice Spacing	0.5
Number of Echoes	3	ACQ TIMING	
TR	410.1	Freq	280
Receiver Bandwidth	62.50	Phase	200
IMAGE ENHANCE		Freq DIR	S/I
Filter Choice	G	NEX	2.00
GATING/TRIGGER		Auto Shim	On
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV8	1.00
View Order	Bottom/Up	User CV19	2.00
# of Repetitions REST	0	User CV20	1.00
# of Repetitions ACTIVE	0	TR Min	400.0
SAT		TR Max	1200.0
Tag Type	None	MULTI-PHASE	
TRICKS		Seperate Series	0
Pause On/Off	On	Mask Phase	0
Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

COR T2* GRE TRAUMA

COR T2* GRE TRAUMA

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*ONLY IF CONTRAST	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	Neck;Spine	Imaging Options	Seq, EDR, Fast, SS, ARC
	Plane	3-PLANE	SCAN RANGE	
	Series Description	*ONLY IF CONTRAST	FOV	30.0
	SCAN TIMING		Slice Thickness	15.0
	TE	80.0	Slice Spacing	5.0
	Number of Echoes	1	ACQ TIMING	
	TR	1200.0	Freq	384
	Receiver Bandwidth	83.33	Phase	128
	IMAGE ENHANCE		Freq DIR	Unswap
	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	
	View Order	Bottom/Up	User CV2	240.00
	# of Repetitions REST	0	User CV13	1.00
	# 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	Off	CONTRAST		
		Contrast Yes/No	No	

*ONLY IF CONTRAST

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Neck;Spine	Imaging Options	EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T1 FSE	FOV	20.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	142	Slice Spacing	1.0
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	260
TR	768.0	Phase	220
Echo Train Length	3	Freq DIR	R/L
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (L)
IMAGE ENHANCE		NEX	2.00
Filter Choice	G	# 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	
View Order	Bottom/Up	User CV15	2.00
# of Repetitions REST	0	User CV16	1.00
# of Repetitions ACTIVE	0	TR Min	550.0
SAT		TR Max	900.0
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

Ax T1 FSE

Ax T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Neck;Spine	Imaging Options	NPW, EDR, TRF, Fast, ARC
Plane	OBLIQUE	SCAN RANGE	
Series Description	Sag T1 FSE POST	FOV	22.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	111	Slice Spacing	0.5
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	320
TR	600.0	Phase	224
Echo Train Length	4	Freq DIR	A/P
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (P)
IMAGE ENHANCE		NEX	4.00
Filter Choice	G	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV15	2.00
View Order	Bottom/Up	User CV16	1.00
# of Repetitions REST	0	User CV19	1.00
# of Repetitions ACTIVE	0	TR Min	600.0
SAT		TR Max	900.0
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	Yes

Sag T1 FSE POST

Sag T1 FSE POST

Protocol: adult_spine_Cervical Spine

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Neck;Spine	Imaging Options	EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	Ax T1 FSE F/S POST	FOV	20.0
SCAN TIMING		Slice Thickness	3.0
Flip Angle	142	Slice Spacing	1.0
TE	Min Full	ACQ TIMING	
Number of Echoes	1	Freq	260
TR	655.0	Phase	220
Echo Train Length	3	Freq DIR	R/L
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (L)
IMAGE ENHANCE		NEX	2.00
Filter Choice	G	# 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	
View Order	Bottom/Up	User CV15	2.00
# of Repetitions REST	0	User CV16	1.00
# of Repetitions ACTIVE	0	User CV19	1.00
SAT		TR Min	550.0
Tag Type	None	TR Max	900.0
Fat/Water Saturation	Fat	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	Yes

Ax T1 FSE F/S POST

Ax T1 FSE F/S POST

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	Neck;Spine	Imaging Options	Seq, EDR, Fast, SS, ARC
Plane	3-PLANE	SCAN RANGE	
Series Description	*ONLY IF MS*	FOV	30.0
SCAN TIMING		Slice Thickness	15.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	ACQ TIMING	
TR	1200.0	Freq	384
Receiver Bandwidth	83.33	Phase	128
IMAGE ENHANCE		Freq DIR	Unswap
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	
View Order	Bottom/Up	User CV2	240.00
# of Repetitions REST	0	User CV13	1.00
# 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	Off	CONTRAST	
		Contrast Yes/No	No

ONLY IF MS

ONLY IF MS

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Protocol: adult_spine_Cervical Spine

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube
Coil Configuration	Neck;Spine	Imaging Options	FC, EDR, Fast, ZIP512, ZIP2, FR, ARC
Plane	OBLIQUE		
Series Description	3D Ax T2 Cube for ms		
SCAN TIMING		SCAN RANGE	
TE	90.0	FOV	18.0
Number of Echoes	1	Slice Thickness	1.6
TR	1500.0	Location per Slab	90
Echo Train Length	60	Overlap Locations	0
Receiver Bandwidth	83.33		
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	B	Freq	280
		Phase	250
GATING/TRIGGER		Freq DIR	R/L
Auto Trigger Type	Off	NEX	1.00
		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		
SAT		USER CVS	
SAT Location	A	User CV22	2.00
Tag Type	None		
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

3D Ax T2 Cube for ms

3D Ax T2 Cube for ms