

Protocol: adult_spine_LUMBAR Plexus 9-21-17

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>Gradient Echo</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>Seq, Fast</i>
Plane	<i>3-PLANE</i>	SCAN RANGE	
Series Description	<i>3 Plane Localizer</i>	FOV	<i>38.0</i>
SCAN TIMING		Slice Thickness	<i>10.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>5.0</i>
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	<i>None</i>	Freq	<i>256</i>
GATING/TRIGGER		Phase	<i>128</i>
Auto Trigger Type	<i>Off</i>	Freq DIR	<i>Unswap</i>
MULTI-PHASE		NEX	<i>1.00</i>
Seperate Series	<i>0</i>	Phase FOV	<i>1.00</i>
Mask Phase	<i>0</i>	Auto Shim	<i>Auto</i>
Mask Pause	<i>0</i>	Phase Correction	<i>No</i>
DIFFUSION		FMRI	
Recon All Images	<i>On</i>	PSD Trigger	<i>Internal</i>
CONTRAST		View Order	<i>Bottom/Up</i>
Contrast Yes/No	<i>No</i>	# of Repetitions REST	<i>0</i>
		# of Repetitions ACTIVE	<i>0</i>
		SAT	
		Tag Type	<i>None</i>
		TRICKS	
		Pause On/Off	<i>On</i>
		Auto Subtract	<i>0</i>
		Auto SCIC	<i>Off</i>

3 Plane Localizer

3 Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512, ARC</i>
Plane	<i>SAGITTAL</i>	SCAN RANGE	
Series Description	<i>SAG T2 FS</i>	FOV	<i>26.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>90</i>	Slice Spacing	<i>1.5</i>
TE	<i>87.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>192</i>
TR	<i>7230.0</i>	Phase	<i>160</i>
Echo Train Length	<i>15</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (S)</i>
IMAGE ENHANCE		NEX	<i>1.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	USER CVS	
FMRI		User CV17	<i>1.00</i>
PSD Trigger	<i>Internal</i>	User CV19	<i>1.00</i>
View Order	<i>Bottom/Up</i>	TR Min	<i>3000.0</i>
# of Repetitions REST	<i>0</i>	TR Max	<i>10000.0</i>
# of Repetitions ACTIVE	<i>0</i>	MULTI-PHASE	
SAT		Seperate Series	<i>0</i>
Tag Type	<i>None</i>	Mask Phase	<i>0</i>
Fat/Water Saturation	<i>Fat Classic</i>	Mask Pause	<i>0</i>
TRICKS		DIFFUSION	
Pause On/Off	<i>On</i>	Recon All Images	<i>On</i>
Auto Subtract	<i>0</i>	CONTRAST	
Auto SCIC	<i>2</i>	Contrast Yes/No	<i>No</i>

SAG T2 FS

SAG T2 FS

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>Cor T1 FSE</i>	FOV	<i>26.0</i>
SCAN TIMING		Slice Thickness	<i>3.0</i>
Flip Angle	<i>160</i>	Slice Spacing	<i>1.0</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>720.0</i>	Phase	<i>256</i>
Echo Train Length	<i>3</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (I)</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>None</i>	# of Acq. Before Pause	<i>0</i>
GATING/TRIGGER		Auto Shim	<i>Auto</i>
Auto Trigger Type	<i>Off</i>	Phase Correction	<i>No</i>
FMRI		Flow Direction Compensation	<i>Freq</i>
PSD Trigger	<i>Internal</i>	USER CVS	
View Order	<i>Bottom/Up</i>	User CV22	<i>1.00</i>
# of Repetitions REST	<i>0</i>	TR Min	<i>300.0</i>
# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>750.0</i>
SAT		MULTI-PHASE	
Tag Type	<i>None</i>	Seperate Series	<i>0</i>
TRICKS		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>
Auto Subtract	<i>0</i>	DIFFUSION	
Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
		CONTRAST	
		Contrast Yes/No	<i>No</i>

Cor T1 FSE

Cor T1 FSE

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512, ARC</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>Cor T2</i>	FOV	<i>26.0</i>
SCAN TIMING		Slice Thickness	<i>3.0</i>
Flip Angle	<i>90</i>	Slice Spacing	<i>1.0</i>
TE	<i>87.0</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>6303.0</i>	Phase	<i>256</i>
Echo Train Length	<i>13</i>	Freq DIR	<i>S/I</i>
Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (I)</i>
IMAGE ENHANCE		NEX	<i>4.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	USER CVS	
FMRI		TR Min	<i>3000.0</i>
PSD Trigger	<i>Internal</i>	TR Max	<i>10000.0</i>
View Order	<i>Bottom/Up</i>	MULTI-PHASE	
# of Repetitions REST	<i>0</i>	Seperate Series	<i>0</i>
# of Repetitions ACTIVE	<i>0</i>	Mask Phase	<i>0</i>
SAT		Mask Pause	<i>0</i>
SAT Location	<i>S</i>	DIFFUSION	
SAT Location	<i>I</i>	Recon All Images	<i>On</i>
Tag Type	<i>None</i>	CONTRAST	
TRICKS		Contrast Yes/No	<i>No</i>
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</i>		

Cor T2

Cor T2

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512, ARC</i>
Plane	<i>OBLIQUE</i>		
Series Description	<i>Cor T2 Fat Sat</i>		
SCAN TIMING		SCAN RANGE	
Flip Angle	<i>90</i>	FOV	<i>26.0</i>
TE	<i>87.0</i>	Slice Thickness	<i>3.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>1.0</i>
TR	<i>7032.0</i>		
Echo Train Length	<i>13</i>	ACQ TIMING	
Receiver Bandwidth	<i>31.25</i>	Freq	<i>384</i>
		Phase	<i>224</i>
		Freq DIR	<i>S/I</i>
		Fat Shift DIR	<i>Normal (I)</i>
		NEX	<i>4.00</i>
		Auto Shim	<i>Auto</i>
		Phase Correction	<i>Yes</i>
IMAGE ENHANCE		USER CVS	
Filter Choice	<i>None</i>	User CV19	<i>1.00</i>
		TR Min	<i>3000.0</i>
		TR Max	<i>10000.0</i>
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	<i>Off</i>	Seperate Series	<i>0</i>
		Mask Phase	<i>0</i>
		Mask Pause	<i>0</i>
FMRI		DIFFUSION	
PSD Trigger	<i>Internal</i>	Recon All Images	<i>On</i>
View Order	<i>Bottom/Up</i>		
# of Repetitions REST	<i>0</i>	CONTRAST	
# of Repetitions ACTIVE	<i>0</i>	Contrast Yes/No	<i>No</i>
SAT			
SAT Location	<i>S</i>		
SAT Location	<i>I</i>		
Tag Type	<i>None</i>		
Fat/Water Saturation	<i>Fat Classic</i>		
TRICKS			
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</i>		

Cor T2 Fat Sat

Cor T2 Fat Sat

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Ax T1	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
	Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast</i>
	Plane	<i>AXIAL</i>	SCAN RANGE	
	Series Description	<i>Ax T1</i>	FOV	<i>26.0</i>
	SCAN TIMING		Slice Thickness	<i>4.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>2.0</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>384</i>
	TR	<i>742.0</i>	Phase	<i>224</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>R/L</i>
	Receiver Bandwidth	<i>35.71</i>	Fat Shift DIR	<i>Normal (L)</i>
	IMAGE ENHANCE		NEX	<i>3.00</i>
	Filter Choice	<i>None</i>	# of Acq. Before Pause	<i>0</i>
	GATING/TRIGGER		Auto Shim	<i>Auto</i>
	Auto Trigger Type	<i>Off</i>	Phase Correction	<i>No</i>
	FMRI		Flow Direction Compensation	<i>Slice</i>
	PSD Trigger	<i>Internal</i>	USER CVS	
	View Order	<i>Bottom/Up</i>	User CV22	<i>1.00</i>
	# of Repetitions REST	<i>0</i>	TR Min	<i>300.0</i>
	# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>750.0</i>
	SAT		MULTI-PHASE	
	Tag Type	<i>None</i>	Seperate Series	<i>0</i>
	TRICKS		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>	
Auto Subtract	<i>0</i>	DIFFUSION		
Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>	
		CONTRAST		
		Contrast Yes/No	<i>No</i>	

Ax T1

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
Patient Position	<i>Supine</i>	Pulse Sequence	<i>FSE-XL</i>
Coil Configuration	<i>GEM Body</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512, ARC</i>
Plane	<i>OBLIQUE</i>		
Series Description	<i>Ax T2 FS</i>		
SCAN TIMING		SCAN RANGE	
Flip Angle	<i>90</i>	FOV	<i>26.0</i>
TE	<i>87.0</i>	Slice Thickness	<i>4.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>2.0</i>
TR	<i>7474.0</i>		
Echo Train Length	<i>13</i>	ACQ TIMING	
Receiver Bandwidth	<i>31.25</i>	Freq	<i>384</i>
		Phase	<i>256</i>
		Freq DIR	<i>S/I</i>
		Fat Shift DIR	<i>Normal (I)</i>
		NEX	<i>3.00</i>
		Auto Shim	<i>Auto</i>
		Phase Correction	<i>Yes</i>
IMAGE ENHANCE		USER CVS	
Filter Choice	<i>None</i>	User CV19	<i>1.00</i>
		TR Min	<i>3000.0</i>
		TR Max	<i>10000.0</i>
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	<i>Off</i>	Seperate Series	<i>0</i>
		Mask Phase	<i>0</i>
		Mask Pause	<i>0</i>
FMRI		DIFFUSION	
PSD Trigger	<i>Internal</i>	Recon All Images	<i>On</i>
View Order	<i>Bottom/Up</i>		
# of Repetitions REST	<i>0</i>	CONTRAST	
# of Repetitions ACTIVE	<i>0</i>	Contrast Yes/No	<i>No</i>
SAT			
SAT Location	<i>S</i>		
SAT Location	<i>I</i>		
Tag Type	<i>None</i>		
Fat/Water Saturation	<i>Fat Classic</i>		
TRICKS			
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</i>		

Ax T2 FS

Ax T2 FS