

Protocol: adult\_spine\_LUMBAR W/O CONTRAST

3-Plane Localizer	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	<i>Feet First</i>	Imaging Mode	<i>2D</i>
	Patient Position	<i>Supine</i>	Pulse Sequence	<i>Spin Echo</i>
	Coil Configuration	<i>GEM Spine</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, SS, FR, ARC</i>
	Plane	<i>3-PLANE</i>	<b>SCAN RANGE</b>	
	Series Description	<i>3-Plane Localizer</i>	FOV	<i>32.0</i>
	<b>SCAN TIMING</b>		Slice Thickness	<i>3.0</i>
	TE	<i>Minimum</i>	Slice Spacing	<i>7.0</i>
	Number of Echoes	<i>1</i>	<b>ACQ TIMING</b>	
	TR	<i>Minimum</i>	Freq	<i>256</i>
	Receiver Bandwidth	<i>83.33</i>	Phase	<i>160</i>
	<b>IMAGE ENHANCE</b>		Freq DIR	<i>Unswap</i>
	Filter Choice	<i>None</i>	# of Acq. Before Pause	<i>0</i>
	<b>GATING/TRIGGER</b>		Phase FOV	<i>1.00</i>
	Auto Trigger Type	<i>Off</i>	Auto Shim	<i>Auto</i>
	<b>FMRI</b>		Phase Correction	<i>No</i>
	PSD Trigger	<i>Internal</i>	<b>USER CVS</b>	
	View Order	<i>Bottom/Up</i>	User CV1	<i>1.00</i>
	# of Repetitions REST	<i>0</i>	<b>MULTI-PHASE</b>	
	# of Repetitions ACTIVE	<i>0</i>	Seperate Series	<i>0</i>
	<b>SAT</b>		Mask Phase	<i>0</i>
	Tag Type	<i>None</i>	Mask Pause	<i>0</i>
	<b>TRICKS</b>		<b>DIFFUSION</b>	
	Pause On/Off	<i>On</i>	Recon All Images	<i>On</i>
	Auto Subtract	<i>0</i>	<b>CONTRAST</b>	
Auto SCIC	<i>Off</i>	Contrast Yes/No	<i>No</i>	

3-Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	FC, NPW, EDR, TRF, Fast, FR
Plane	OBLIQUE		
Series Description	SAGITTAL T2W FAT SAT		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	28.0
TE	81.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	3703.0		
Echo Train Length	21	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	416
		Phase	256
		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	None	User CV15	2.00
		User CV19	1.00
		TR Min	2500.0
		TR Max	6000.0
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		
# of Repetitions ACTIVE	0		
SAT		CONTRAST	
SAT Location	S	Contrast Yes/No	No
SAT Location	I		
Tag Type	None		
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

SAGITTAL T2W FAT SAT

SAGITTAL T2W FAT SAT

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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 Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512</i>
Plane	<i>OBLIQUE</i>		
Series Description	<i>SAGITTAL T1W</i>		
SCAN TIMING		SCAN RANGE	
Flip Angle	<i>160</i>	FOV	<i>28.0</i>
TE	<i>Min Full</i>	Slice Thickness	<i>4.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>1.0</i>
TR	<i>643.0</i>		
Echo Train Length	<i>3</i>	ACQ TIMING	
Receiver Bandwidth	<i>41.67</i>	Freq	<i>416</i>
		Phase	<i>256</i>
		Freq DIR	<i>A/P</i>
		Fat Shift DIR	<i>Normal (P)</i>
		NEX	<i>4.00</i>
		Auto Shim	<i>Auto</i>
		Phase Correction	<i>No</i>
IMAGE ENHANCE		USER CVS	
Filter Choice	<i>None</i>	User CV15	<i>2.00</i>
		User CV16	<i>1.00</i>
		User CV22	<i>1.00</i>
		TR Min	<i>400.0</i>
		TR Max	<i>750.0</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>		
# of Repetitions ACTIVE	<i>0</i>		
SAT		CONTRAST	
Tag Type	<i>None</i>	Contrast Yes/No	<i>No</i>
TRICKS			
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>Off</i>		

SAGITTAL T1W

SAGITTAL T1W

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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 Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast, ZIP512, FR</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>SAGITTAL T2W 2MM</i>	FOV	<i>28.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>2.0</i>
Flip Angle	<i>160</i>	Slice Spacing	<i>0.0</i>
TE	<i>100.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>288</i>
TR	<i>7252.0</i>	Phase	<i>192</i>
Echo Train Length	<i>23</i>	Freq DIR	<i>A/P</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (P)</i>
<b>IMAGE ENHANCE</b>		NEX	<i>4.00</i>
Filter Choice	<i>None</i>	Auto Shim	<i>Auto</i>
<b>GATING/TRIGGER</b>		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	<b>USER CVS</b>	
<b>FMRI</b>		User CV15	<i>2.00</i>
PSD Trigger	<i>Internal</i>	TR Min	<i>2500.0</i>
View Order	<i>Bottom/Up</i>	TR Max	<i>8000.0</i>
# of Repetitions REST	<i>0</i>	<b>MULTI-PHASE</b>	
# of Repetitions ACTIVE	<i>0</i>	Seperate Series	<i>0</i>
<b>SAT</b>		Mask Phase	<i>0</i>
SAT Location	<i>S</i>	Mask Pause	<i>0</i>
SAT Location	<i>I</i>	<b>DIFFUSION</b>	
Tag Type	<i>None</i>	Recon All Images	<i>On</i>
<b>TRICKS</b>		<b>CONTRAST</b>	
Pause On/Off	<i>On</i>	Contrast Yes/No	<i>No</i>
Auto Subtract	<i>0</i>		
Auto SCIC	<i>Off</i>		

SAGITTAL T2W 2MM

SAGITTAL T2W 2MM

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	FC, NPW, EDR, TRF, Fast, ZIP512, FR
Plane	OBLIQUE		
Series Description	AXIAL T2W		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	16.0
TE	102.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	7528.0		
Echo Train Length	23	ACQ TIMING	
Receiver Bandwidth	41.67	Freq	256
		Phase	192
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	4.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction	Slice
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV15	2.00
		TR Min	2500.0
		TR Max	11000.0
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		
# of Repetitions ACTIVE	0		
SAT		CONTRAST	
Tag Type	None	Contrast Yes/No	No
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

AXIAL T2W

AXIAL T2W