

McLeod Pavilion

Protocol: adult\_spine\_Lumbar Spine

PATIENT POSITION		IMAGING PARAMETERS	
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>Spine</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, SS, ARC</i>
Plane	<i>3-PLANE</i>	<b>SCAN RANGE</b>	
Series Description	<i>3-Plane Localizer</i>	FOV	<i>48.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>10.0</i>
TE	<i>80.0</i>	Slice Spacing	<i>5.0</i>
Number of Echoes	<i>1</i>	<b>ACQ TIMING</b>	
TR	<i>1100.0</i>	Freq	<i>384</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>MULTI-PHASE</b>		Phase Correction	<i>No</i>
Seperate Series	<i>0</i>	<b>FMRI</b>	
Mask Phase	<i>0</i>	PSD Trigger	<i>Internal</i>
Mask Pause	<i>0</i>	View Order	<i>Bottom/Up</i>
<b>DIFFUSION</b>		# of Repetitions REST	<i>0</i>
Recon All Images	<i>On</i>	# of Repetitions ACTIVE	<i>0</i>
<b>CONTRAST</b>		<b>SAT</b>	
Contrast Yes/No	<i>No</i>	Tag Type	<i>None</i>
		<b>TRICKS</b>	
		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>Spine</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, FR, ARC</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>Sag T2 frFSE</i>	FOV	<i>28.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>4.0</i>
Flip Angle	<i>142</i>	Slice Spacing	<i>1.0</i>
TE	<i>120.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>416</i>
TR	<i>3926.0</i>	Phase	<i>288</i>
Echo Train Length	<i>24</i>	Freq DIR	<i>A/P</i>
Receiver Bandwidth	<i>62.50</i>	Fat Shift DIR	<i>Reversed (A)</i>
<b>IMAGE ENHANCE</b>		NEX	<i>4.00</i>
Filter Choice	<i>A</i>	Auto Shim	<i>Auto</i>
<b>GATING/TRIGGER</b>		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Freq</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV18	<i>1.00</i>
View Order	<i>Bottom/Up</i>	User CV22	<i>1.00</i>
# of Repetitions REST	<i>0</i>	TR Min	<i>2500.0</i>
# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>6500.0</i>
<b>SAT</b>		<b>MULTI-PHASE</b>	
SAT Location	<i>S</i>	Seperate Series	<i>0</i>
SAT Location	<i>I</i>	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>2</i>	Contrast Yes/No	<i>No</i>

Sag T2 frFSE

Sag T2 frFSE

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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>Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>Sag T1 FSE Optimized</i>	FOV	<i>28.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>4.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.0</i>
TE	<i>18.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>352</i>
TR	<i>600.0</i>	Phase	<i>232</i>
Echo Train Length	<i>5</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>3.00</i>
Filter Choice	<i>A</i>	# of Acq. Before Pause	<i>0</i>
<b>GATING/TRIGGER</b>		Auto Shim	<i>Auto</i>
Auto Trigger Type	<i>Off</i>	Phase Correction	<i>No</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV16	<i>1.00</i>
# of Repetitions REST	<i>0</i>	TR Min	<i>600.0</i>
# of Repetitions ACTIVE	<i>0</i>	TR Max	<i>900.0</i>
<b>SAT</b>		<b>MULTI-PHASE</b>	
Tag Type	<i>None</i>	Seperate Series	<i>0</i>
<b>TRICKS</b>		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>
Auto Subtract	<i>0</i>	<b>DIFFUSION</b>	
Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
		<b>CONTRAST</b>	
		Contrast Yes/No	<i>No</i>

Sag T1 FSE Optimized

Sag T1 FSE Optimized

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	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	28.0
TE	68.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	4733.0		
TI	188	ACQ TIMING	
Echo Train Length	12	Freq	288
Receiver Bandwidth	31.25	Phase	224
		Freq DIR	S/I
		Fat Shift DIR	Normal (S)
		NEX	2.00
		Phase FOV	1.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Freq
IMAGE ENHANCE		USER CVS	
Filter Choice	A	User CV22	1.00
		TR Min	2000.0
		TR Max	15000.0
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			
SAT Location	S		
SAT Location	I		
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

Sag T2 FSE STIR

Sag T2 FSE STIR

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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>Spine</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, FR</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>Ax T2 frFSE</i>	FOV	<i>18.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>5.0</i>
Flip Angle	<i>142</i>	Slice Spacing	<i>1.5</i>
TE	<i>120.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>3884.0</i>	Phase	<i>232</i>
Echo Train Length	<i>20</i>	Freq DIR	<i>Swap</i>
Receiver Bandwidth	<i>62.50</i>	Fat Shift DIR	<i>Normal</i>
<b>IMAGE ENHANCE</b>		NEX	<i>3.00</i>
Filter Choice	<i>A</i>	Auto Shim	<i>Auto</i>
<b>GATING/TRIGGER</b>		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Slice</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV18	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV22	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>2500.0</i>
<b>SAT</b>		TR Max	<i>11000.0</i>
Tag Type	<i>None</i>	<b>MULTI-PHASE</b>	
<b>TRICKS</b>		Seperate Series	<i>0</i>
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>
Auto SCIC	<i>2</i>	<b>DIFFUSION</b>	
<b>OTHERS</b>		Recon All Images	<i>On</i>
Protocol Notes	<i>Dont change matrix</i>	<b>CONTRAST</b>	
		Contrast Yes/No	<i>No</i>

Ax T2 frFSE

Ax T2 frFSE

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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>Spine</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, FR</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>Ax T2 frFSE</i>	FOV	<i>18.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>4.0</i>
Flip Angle	<i>142</i>	Slice Spacing	<i>1.0</i>
TE	<i>120.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>4963.0</i>	Phase	<i>232</i>
Echo Train Length	<i>20</i>	Freq DIR	<i>Swap</i>
Receiver Bandwidth	<i>62.50</i>	Fat Shift DIR	<i>Normal</i>
<b>IMAGE ENHANCE</b>		NEX	<i>3.00</i>
Filter Choice	<i>A</i>	Auto Shim	<i>Auto</i>
<b>GATING/TRIGGER</b>		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Slice</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV18	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV22	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>2500.0</i>
<b>SAT</b>		TR Max	<i>11000.0</i>
Tag Type	<i>None</i>	<b>MULTI-PHASE</b>	
<b>TRICKS</b>		Seperate Series	<i>0</i>
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>
Auto SCIC	<i>2</i>	<b>DIFFUSION</b>	
<b>OTHERS</b>		Recon All Images	<i>On</i>
Protocol Notes	<i>dont change matrix</i>	<b>CONTRAST</b>	
		Contrast Yes/No	<i>No</i>

Ax T2 frFSE

Ax T2 frFSE

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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>Spin Echo</i>
Coil Configuration	<i>Spine</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, SS, ARC</i>
Plane	<i>3-PLANE</i>	<b>SCAN RANGE</b>	
Series Description	<i>*ONLY IF CONTRAST</i>	FOV	<i>48.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>10.0</i>
TE	<i>80.0</i>	Slice Spacing	<i>5.0</i>
Number of Echoes	<i>1</i>	<b>ACQ TIMING</b>	
TR	<i>1100.0</i>	Freq	<i>384</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>MULTI-PHASE</b>		Phase Correction	<i>No</i>
Seperate Series	<i>0</i>	<b>FMRI</b>	
Mask Phase	<i>0</i>	PSD Trigger	<i>Internal</i>
Mask Pause	<i>0</i>	View Order	<i>Bottom/Up</i>
<b>DIFFUSION</b>		# of Repetitions REST	<i>0</i>
Recon All Images	<i>On</i>	# of Repetitions ACTIVE	<i>0</i>
<b>CONTRAST</b>		<b>SAT</b>	
Contrast Yes/No	<i>No</i>	Tag Type	<i>None</i>
		<b>TRICKS</b>	
		Pause On/Off	<i>On</i>
		Auto Subtract	<i>0</i>
		Auto SCIC	<i>Off</i>

\*ONLY IF CONTRAST

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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>Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>Ax T1 FSE PRE</i>	FOV	<i>18.0</i>
SCAN TIMING		Slice Thickness	<i>5.0</i>
Flip Angle	<i>142</i>	Slice Spacing	<i>1.5</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>280</i>
TR	<i>550.0</i>	Phase	<i>224</i>
Echo Train Length	<i>4</i>	Freq DIR	<i>Swap</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>A</i>	Auto Shim	<i>Auto</i>
GATING/TRIGGER		Phase Correction	<i>Yes</i>
Auto Trigger Type	<i>Off</i>	USER CVS	
FMRI		User CV15	<i>2.00</i>
PSD Trigger	<i>Internal</i>	User CV16	<i>1.00</i>
View Order	<i>Bottom/Up</i>	TR Min	<i>550.0</i>
# of Repetitions REST	<i>0</i>	TR Max	<i>850.0</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>
TRICKS		Mask Pause	<i>0</i>
Pause On/Off	<i>On</i>	DIFFUSION	
Auto Subtract	<i>0</i>	Recon All Images	<i>On</i>
Auto SCIC	<i>2</i>	CONTRAST	
		Contrast Yes/No	<i>No</i>

Ax T1 FSE PRE

Ax T1 FSE PRE



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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>Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	SCAN RANGE	
Series Description	<i>+c Sag T1 FSE Optimized</i>	FOV	<i>26.0</i>
SCAN TIMING		Slice Thickness	<i>4.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.0</i>
TE	<i>Min Full</i>	ACQ TIMING	
Number of Echoes	<i>1</i>	Freq	<i>320</i>
TR	<i>600.0</i>	Phase	<i>224</i>
Echo Train Length	<i>4</i>	Freq DIR	<i>A/P</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (P)</i>
IMAGE ENHANCE		NEX	<i>3.00</i>
Filter Choice	<i>A</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		USER CVS	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV16	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV19	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>600.0</i>
SAT		TR Max	<i>900.0</i>
Tag Type	<i>None</i>	MULTI-PHASE	
Fat/Water Saturation	<i>Fat</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>Yes</i>

+c Sag T1 FSE Optimized

+c Sag T1 FSE Optimized

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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>Spine</i>	Imaging Options	<i>NPW, EDR, TRF, Fast</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>+c Ax T1 F/S</i>	FOV	<i>18.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>5.0</i>
Flip Angle	<i>111</i>	Slice Spacing	<i>1.5</i>
TE	<i>Min Full</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>260</i>
TR	<i>624.0</i>	Phase	<i>220</i>
Echo Train Length	<i>3</i>	Freq DIR	<i>A/P</i>
Receiver Bandwidth	<i>41.67</i>	Fat Shift DIR	<i>Normal (A)</i>
<b>IMAGE ENHANCE</b>		NEX	<i>2.00</i>
Filter Choice	<i>A</i>	# of Acq. Before Pause	<i>0</i>
<b>GATING/TRIGGER</b>		Auto Shim	<i>Auto</i>
Auto Trigger Type	<i>Off</i>	Phase Correction	<i>Yes</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV16	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV19	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>550.0</i>
<b>SAT</b>		TR Max	<i>850.0</i>
Tag Type	<i>None</i>	<b>MULTI-PHASE</b>	
Fat/Water Saturation	<i>Fat</i>	Seperate Series	<i>0</i>
<b>TRICKS</b>		Mask Phase	<i>0</i>
Pause On/Off	<i>On</i>	Mask Pause	<i>0</i>
Auto Subtract	<i>0</i>	<b>DIFFUSION</b>	
Auto SCIC	<i>2</i>	Recon All Images	<i>On</i>
		<b>CONTRAST</b>	
		Contrast Yes/No	<i>Yes</i>

+c Ax T1 F/S

+c Ax T1 F/S

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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>Spin Echo</i>
Coil Configuration	<i>Spine</i>	Imaging Options	<i>Seq, EDR, TRF, Fast, SS, ARC</i>
Plane	<i>3-PLANE</i>	<b>SCAN RANGE</b>	
Series Description	<i>***OPTIONAL***</i>	FOV	<i>48.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>10.0</i>
TE	<i>80.0</i>	Slice Spacing	<i>5.0</i>
Number of Echoes	<i>1</i>	<b>ACQ TIMING</b>	
TR	<i>1100.0</i>	Freq	<i>384</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>MULTI-PHASE</b>		Phase Correction	<i>No</i>
Seperate Series	<i>0</i>	<b>FMRI</b>	
Mask Phase	<i>0</i>	PSD Trigger	<i>Internal</i>
Mask Pause	<i>0</i>	View Order	<i>Bottom/Up</i>
<b>DIFFUSION</b>		# of Repetitions REST	<i>0</i>
Recon All Images	<i>On</i>	# of Repetitions ACTIVE	<i>0</i>
<b>CONTRAST</b>		<b>SAT</b>	
Contrast Yes/No	<i>No</i>	Tag Type	<i>None</i>
		<b>TRICKS</b>	
		Pause On/Off	<i>On</i>
		Auto Subtract	<i>0</i>
		Auto SCIC	<i>Off</i>

\*\*\*OPTIONAL\*\*\*

\*\*\*OPTIONAL\*\*\*

McLeod Pavilion

Protocol: adult\_spine\_Lumbar Spine

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	Spine	Imaging Options	FC, NPW, EDR, TRF, Fast, FR, ARC
Plane	OBLIQUE		
Series Description	Sag T2 frFSE ARC		
SCAN TIMING		SCAN RANGE	
Flip Angle	142	FOV	26.0
TE	110.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	3885.0		
Echo Train Length	25	ACQ TIMING	
Receiver Bandwidth	62.50	Freq	416
		Phase	288
		Freq DIR	A/P
		Fat Shift DIR	Reversed (A)
		NEX	4.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction	Freq
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	U N2S2	User CV15	2.00
		User CV18	1.00
		User CV22	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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

Sag T2 frFSE ARC

Sag T2 frFSE ARC

Protocol: adult\_spine\_Lumbar Spine

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>Spine</i>	Imaging Options	<i>FC, NPW, EDR, TRF, Fast, ARC</i>
Plane	<i>OBLIQUE</i>	<b>SCAN RANGE</b>	
Series Description	<i>Sag T1 ARC Optimized</i>	FOV	<i>26.0</i>
<b>SCAN TIMING</b>		Slice Thickness	<i>4.0</i>
Flip Angle	<i>142</i>	Slice Spacing	<i>1.0</i>
TE	<i>10.0</i>	<b>ACQ TIMING</b>	
Number of Echoes	<i>1</i>	Freq	<i>384</i>
TR	<i>988.0</i>	Phase	<i>270</i>
Echo Train Length	<i>3</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>3.00</i>
Filter Choice	<i>U N2S2</i>	Auto Shim	<i>Auto</i>
<b>GATING/TRIGGER</b>		Phase Correction	<i>No</i>
Auto Trigger Type	<i>Off</i>	Flow Direction Compensation	<i>Freq</i>
<b>FMRI</b>		<b>USER CVS</b>	
PSD Trigger	<i>Internal</i>	User CV15	<i>2.00</i>
View Order	<i>Bottom/Up</i>	User CV16	<i>1.00</i>
# of Repetitions REST	<i>0</i>	User CV18	<i>1.00</i>
# of Repetitions ACTIVE	<i>0</i>	TR Min	<i>600.0</i>
<b>SAT</b>		TR Max	<i>1000.0</i>
Tag Type	<i>None</i>	<b>MULTI-PHASE</b>	
<b>TRICKS</b>		Seperate Series	<i>0</i>
Pause On/Off	<i>On</i>	Mask Phase	<i>0</i>
Auto Subtract	<i>0</i>	Mask Pause	<i>0</i>
Auto SCIC	<i>2</i>	<b>DIFFUSION</b>	
		Recon All Images	<i>On</i>
		<b>CONTRAST</b>	
		Contrast Yes/No	<i>No</i>

Sag T1 ARC Optimized

Sag T1 ARC Optimized