

Protocol: adult_spine_LUMBAR Pre and Post feet first

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GEM Spine	Imaging Options	Seq, EDR, Fast, SS, ARC
Plane	3-PLANE	SCAN RANGE	
Series Description	3-Plane Localizer	FOV	32.0
SCAN TIMING		Slice Thickness	7.0
TE	80.0	Slice Spacing	7.0
Number of Echoes	1	ACQ TIMING	
TR	Minimum	Freq	256
Receiver Bandwidth	83.33	Phase	160
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 CV1	1.00
# of Repetitions REST	0	User CV2	240.00
# of Repetitions ACTIVE	0	User CV13	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	Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No

3-Plane Localizer

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	3919.0		
Echo Train Length	21	ACQ TIMING	
Receiver Bandwidth	31.25	Freq	384
		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	
Tag Type	None	Contrast Yes/No	No
Fat/Water Saturation	Fat Classic		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	2		

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>639.0</i>		
Echo Train Length	<i>3</i>	ACQ TIMING	
Receiver Bandwidth	<i>35.71</i>	Freq	<i>384</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>650.0</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>2</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>		
Series Description	<i>SAGITTAL T2W 2MM</i>		
SCAN TIMING		SCAN RANGE	
Flip Angle	<i>160</i>	FOV	<i>28.0</i>
TE	<i>100.0</i>	Slice Thickness	<i>2.0</i>
Number of Echoes	<i>1</i>	Slice Spacing	<i>0.0</i>
TR	<i>6735.0</i>		
Echo Train Length	<i>23</i>	ACQ TIMING	
Receiver Bandwidth	<i>35.71</i>	Freq	<i>256</i>
		Phase	<i>192</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>
		TR Min	<i>2500.0</i>
		TR Max	<i>8000.0</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			
Tag Type	<i>None</i>		
TRICKS			
Pause On/Off	<i>On</i>		
Auto Subtract	<i>0</i>		
Auto SCIC	<i>2</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	1.5
TR	7162.0		
Echo Train Length	23	ACQ TIMING	
Receiver Bandwidth	35.71	Freq	256
		Phase	220
		Freq DIR	A/P
		Fat Shift DIR	Normal (A)
		NEX	4.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction Compensation	Slice
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	CONTRAST	
# of Repetitions ACTIVE	0	Contrast Yes/No	No
SAT			
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

AXIAL T2W

AXIAL T2W

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Ax T1 Pre	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</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>Ax T1 Pre</i>	FOV	<i>16.0</i>
	SCAN TIMING		Slice Thickness	<i>4.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>1.5</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>288</i>
	TR	<i>476.0</i>	Phase	<i>200</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>A/P</i>
	Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (A)</i>
	IMAGE ENHANCE		NEX	<i>4.00</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>Yes</i>
	FMRI		USER CVS	
	PSD Trigger	<i>Internal</i>	User CV22	<i>1.00</i>
	View Order	<i>Bottom/Up</i>	TR Min	<i>400.0</i>
	# of Repetitions REST	<i>0</i>	TR Max	<i>750.0</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 Pre

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Ax T1 Post	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</i>
	Plane	<i>OBLIQUE</i>	SCAN RANGE	
	Series Description	<i>Ax T1 Post</i>	FOV	<i>16.0</i>
	SCAN TIMING		Slice Thickness	<i>4.0</i>
	Flip Angle	<i>160</i>	Slice Spacing	<i>1.5</i>
	TE	<i>Min Full</i>	ACQ TIMING	
	Number of Echoes	<i>1</i>	Freq	<i>288</i>
	TR	<i>476.0</i>	Phase	<i>200</i>
	Echo Train Length	<i>3</i>	Freq DIR	<i>A/P</i>
	Receiver Bandwidth	<i>31.25</i>	Fat Shift DIR	<i>Normal (A)</i>
	IMAGE ENHANCE		NEX	<i>4.00</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>Yes</i>
	FMRI		USER CVS	
	PSD Trigger	<i>Internal</i>	User CV22	<i>1.00</i>
	View Order	<i>Bottom/Up</i>	TR Min	<i>400.0</i>
	# of Repetitions REST	<i>0</i>	TR Max	<i>750.0</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>Yes</i>	

Ax T1 Post

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Feet First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	PROPELLER
Coil Configuration	GEM Spine	Imaging Options	EDR, TRF, Fast
Plane	OBLIQUE	SCAN RANGE	
Series Description	SAGITTAL T1W Post Fat Sat	FOV	28.0
SCAN TIMING		Slice Thickness	4.0
Flip Angle	160	Slice Spacing	1.0
Number of Echoes	1	ACQ TIMING	
TR	425.0	Freq	256
Echo Train Length	3	Freq DIR	S/I
Receiver Bandwidth	41.67	Fat Shift DIR	Normal (S)
IMAGE ENHANCE		NEX	2.50
Filter Choice	None	# of Acq. Before Pause	0
GATING/TRIGGER		Auto Shim	Auto
Auto Trigger Type	Off	Phase Correction	No
FMRI		USER CVS	
PSD Trigger	Internal	User CV5	1.00
View Order	Bottom/Up	User CV19	1.00
# of Repetitions REST	0	TR Min	400.0
# of Repetitions ACTIVE	0	TR Max	650.0
SAT		MULTI-PHASE	
Tag Type	None	Seperate Series	0
Fat/Water Saturation	Fat Classic	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	Yes

SAGITTAL T1W Post Fat Sat

SAGITTAL T1W Post Fat Sat