

Protocol: adult_spine_LUMBAR MARS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head 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

Protocol: adult_spine_LUMBAR MARS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	NPW, EDR, TRF, Fast, ZIP512
Plane	OBLIQUE		
Series Description	SAGITTAL T1W		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	28.0
TE	Min Full	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	700.0		
Echo Train Length	3	ACQ TIMING	
Receiver Bandwidth	83.33	Freq	384
		Phase	256
		Freq DIR	A/P
		Fat Shift DIR	Normal (P)
		NEX	4.00
		Auto Shim	Auto
		Phase Correction	No
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV15	2.00
		User CV16	1.00
		User CV22	1.00
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		

SAGITTAL T1W

SAGITTAL T1W

Protocol: adult_spine_LUMBAR MARS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	FC, NPW, Seq, EDR, TRF, Fast, ZIP512, ARC, IrP
Plane	OBLIQUE	PSD Name	frfse-xl
Series Description	SAGITTAL STIR		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	28.0
TE	49.0	Slice Thickness	4.0
Number of Echoes	1	Slice Spacing	1.0
TR	4408.0		
TI	160	ACQ TIMING	
Echo Train Length	13	Freq	320
Receiver Bandwidth	41.67	Phase	224
		Freq DIR	A/P
		Fat Shift DIR	Normal (P)
		NEX	3.00
		Auto Shim	Auto
		Phase Correction	No
		Flow Direction	Freq
		Compensation	
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV22	1.00
GATING/TRIGGER		MULTI-PHASE	
Auto Trigger Type	Off	Seperate Series	0
FMRI		Mask Phase	0
PSD Trigger	Internal	Mask Pause	0
View Order	Bottom/Up	DIFFUSION	
# of Repetitions REST	0	Recon All Images	On
# of Repetitions ACTIVE	0	CONTRAST	
SAT		Contrast Yes/No	No
Tag Type	None		
TRICKS			
Pause On/Off	On		
Auto Subtract	0		
Auto SCIC	Off		

SAGITTAL STIR

SAGITTAL STIR

Protocol: adult_spine_LUMBAR MARS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GEM Spine	Imaging Options	NPW, EDR, TRF, Fast, ZIP512, FR
Plane	OBLIQUE		
Series Description	SAGITTAL T2W 2MM		
SCAN TIMING		SCAN RANGE	
Flip Angle	160	FOV	28.0
TE	100.0	Slice Thickness	2.0
Number of Echoes	1	Slice Spacing	0.0
TR	6774.0		
Echo Train Length	23	ACQ TIMING	
Receiver Bandwidth	50.00	Freq	256
		Phase	192
		Freq DIR	A/P
		Fat Shift DIR	Normal (P)
		NEX	5.00
		Auto Shim	Auto
		Phase Correction	No
IMAGE ENHANCE		USER CVS	
Filter Choice	None	User CV15	2.00
		TR Min	2500.0
		TR Max	8000.0
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		

SAGITTAL T2W 2MM

SAGITTAL T2W 2MM

Protocol: adult_spine_LUMBAR MARS

AXIAL T2W LOWER	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head 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	SCAN RANGE	
	Series Description	AXIAL T2W LOWER	FOV	16.0
	SCAN TIMING		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.0
	TE	102.0	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	3764.0	Phase	192
	Echo Train Length	23	Freq DIR	A/P
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	5.00
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	No
	Auto Trigger Type	Off	Flow Direction	Slice
	FMRI		Compensation	
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV15	2.00
	# of Repetitions REST	0	TR Min	2500.0
	# of Repetitions ACTIVE	0	TR Max	11000.0
	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	

AXIAL T2W LOWER

Protocol: adult_spine_LUMBAR MARS

AXIAL T2W UPPER	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head 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	SCAN RANGE	
	Series Description	AXIAL T2W UPPER	FOV	16.0
	SCAN TIMING		Slice Thickness	4.0
	Flip Angle	160	Slice Spacing	1.0
	TE	102.0	ACQ TIMING	
	Number of Echoes	1	Freq	256
	TR	3764.0	Phase	192
	Echo Train Length	23	Freq DIR	A/P
	Receiver Bandwidth	50.00	Fat Shift DIR	Normal (A)
	IMAGE ENHANCE		NEX	5.00
	Filter Choice	None	Auto Shim	Auto
	GATING/TRIGGER		Phase Correction	No
	Auto Trigger Type	Off	Flow Direction	Slice
	FMRI		Compensation	
	PSD Trigger	Internal	USER CVS	
	View Order	Bottom/Up	User CV15	2.00
	# of Repetitions REST	0	TR Min	2500.0
	# of Repetitions ACTIVE	0	TR Max	11000.0
	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	

AXIAL T2W UPPER

Protocol: adult_spine_LUMBAR MARS

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head 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	---Optional---	FOV	50.0
SCAN TIMING		Slice Thickness	4.0
TE	80.0	Slice Spacing	5.0
Number of Echoes	1	ACQ TIMING	
TR	Minimum	Freq	384
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

Protocol: adult_spine_LUMBAR MARS

Sag MAVRIC SL FLUID	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	MAVRIC SL
	Coil Configuration	GEM Spine	Imaging Options	EDR, Fast, ARC, IrP
	Plane	OBLIQUE	SCAN RANGE	
	Series Description	Sag MAVRIC SL FLUID	FOV	30.0
	SCAN TIMING		Slice Thickness	4.0
	Flip Angle	110	Location per Slab	24
	Number of Echoes	1	Overlap Locations	0
	TR	4000.0	ACQ TIMING	
	TI	150	Freq	256
	Echo Train Length	20	Phase	192
	IMAGE ENHANCE		Freq DIR	S/I
	Filter Choice	None	Phase FOV	0.60
	GATING/TRIGGER		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	No
	MULTI-PHASE		FMRI	
	Seperate Series	0	PSD Trigger	Internal
	Mask Phase	0	View Order	Bottom/Up
	Mask Pause	0	# of Repetitions REST	0
DIFFUSION		# of Repetitions ACTIVE	0	
Recon All Images	On	SAT		
TRACKER		Tag Type	None	
Tracker Length	200.0	TRICKS		
Tracker Thickness	20.0	Pause On/Off	On	
OTHERS		Auto Subtract	0	
Protocol Notes	<p>When evaluating whether to proceed with MR scanning on patients with the implants, consult the implantable device's labeling.</p> <p>- MR Unsafe: Patients with implantable devices that are MR Unsafe are contraindicated.</p> <p>- MR Conditional: For patients with implants that are labeled as MR Conditional, consult the implantable device's labeling.</p> <p>- MR Safe: For patients with implants that are labeled as MR Safe, consult the implantable device's labeling.</p> <p>If the level of MR compatibility is not known, then an implantable device should be considered MR Unsafe.</p>			
		CONTRAST		
		Contrast Yes/No	No	

Sag MAVRIC SL FLUID