

****Run T1 Coronal for scoliotic patients on all spines**

PROTOCOL: **ROUTINE**

IMAGE PLANE	CERVICAL					SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1				
SAG	T1 FLAIR	20	3	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T2 SPIR	16	3	1				
AX	MEDIC	18	3	1		T2 FFE	15	3	1	2D MERGE	17	3	1	ADAGE	16	3	1				
AX	T2 FRFSE	18	3	1		T2 TSE	15	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1				
SAG	T2 STIR	20	3	1		T2 SPIR	19	3	1	T2 FSE FS	21	3	1	T1 TSE	15	3	1				

*** CSF may be requested on prescription if Chiari Malformation is suspected.

PROTOCOL: **M.S.- myelopathy** FOV: **Begin at C1 FOR AXIALS**

IMAGE PLANE	CERVICAL					SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1				
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FSE FS	21	3	1	T2 FS	16	3	1				
SAG	PD FRFSE	20	3	1		PD TSE	19	3	1	PD FRFSE	21	3	1	PD TSE	16	3	1				
SAG	T1 FLAIR	20	1	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T1 TSE	16	3	1				
AX	2D MEDIC	18	3	1	X	T2 FFE	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1				
AX	T2	18	3	1	X	T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1				
SAG	T1 FLAIR	20	3	1	X	T1 TSE	19	3	1	T1 FSE C+	21	3	1	T1 TSE	16	3	1				
AX	T1	18	3	1	X	T1 TSE	16	3	1	T1 FSE C+	17	3	1	T1 TSE	15	3	1				

PROTOCOL: **Surgical** FOV: **Begin at C2**

IMAGE PLANE	CERVICAL					SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1				
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FSE FS	21	3	1	T2 FS	16	3	1				
SAG	T1 FLAIR	20	1	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T1 TSE	16	3	1				
AX	2D MEDIC	18	3	1		2D MEDIC	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1				
AX	T2	18	3	1		T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1				
SAG	T1 FLAIR	20	3	1	X	T1 TSE	19	3	1	T1 FSE C+	21	3	1	T1 TSE	16	3	1				
AX	T1	18	3	1	X	T1 TSE	16	3	1	T1 FSE C+	17	3	1	T1 TSE	15	3	1				

PROTOCOL: **METS- osteomyelitis**

IMAGE PLANE	CERVICAL					SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG	T2 FRFSE	20	3	1		T2 TSE	19	3	1	T2 FRFSE	21	3	1	T2 TSE	16	3	1				
SAG	T1 FLAIR	20	3	1		T1 TSE	19	3	1	T1 FSE	21	3	1	T2 FS	16	3	1				
SAG	T2 STIR	20	3	1		T2 FSAT	19	3	1	T2 FRFSE FS	21	3	1	T1 TSE	16	3	1				
AX	2D MEDIC	18	3	1		2D MEDIC	16	3	1	2D MERGE	17	3	1	T2 FFE ADAGE	15	3	1				
AX	T2 FRFSE	18	3	1		T2 TSE	16	3	1	T2 FRFSE	17	3	1	T2 TSE	15	3	1				
SAG FS	T1 FLAIR	20	3	1	X	T1 TSE C+	19	3	1	T1 FSE FS C+	21	3	1	T1 FS	16	3	1				
AX FS	T1	18	3	1	X	T1 TSE FS C+	16	3	1	T1 FSE FS C+	17	3	1	T1 FS	15	3	1				

PROTOCOL: **ROUTINE**

THORACIC		SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	4	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	T1 FSE	32	4	1	T1 TSE	32	4	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	4	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	4	1
AX	T2 FRFSE	20	4	1		T2 TSE	21	4	1	T2 FRFSE	30	4	1	T2 TSE	20	4	1
AX	MEDIC	20	4	1		T2 FFE	21	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1

*BOTTOM 6 vertebrae

PROTOCOL: **M.S.- myelopathy**

THORACIC		SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	3	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	T1 FSE	32	4	1	T1 TSE	32	3.5	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1
SAG	PD FSE	30	4	1		PD TSE	30	4	1	PD FSE	32	4	1	PD TSE	32	3.5	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1
AX	T2 FRFSE	20	4	1	X	T2 TSE	20	4	1	T2 FRFSE	20	4	1	T2 TSE	20	4	1
AX	MEDIC	20	4	1		T2 FFE DISC	20	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1
AX	T1	20	4	1	X	T1 TSE C+	20	4	1	T1 FSE C+	20	4	1	T1 TSE C+	32	4	1
SAG	T1 FLAIR	30	4	1	X	T1 TSE C+	30	30	1	T1 FSE C+	32	3	1	T1 TSE AX C+	20	4	1

*BOTTOM 6 vertebrae

PROTOCOL: **Surgical**

THORACIC		SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	3	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	T1 FSE	32	4	1	T1 TSE	32	3.5	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1
AX	T2 FRFSE	20	4	1		T2 TSE	20	4	1	T2 FRFSE	20	4	1	T2 TSE	20	4	1
AX	MEDIC	20	4	1		MEDIC	20	3	1	T/2D MERGE	16	3	1	PBSG AX	20	4	1
AX	T1	20	4	1	X	T1 TSE C+	20	4	1	T1 FSE C+	20	4	1	T1 TSE C+	32	4	1
SAG	T1 FLAIR	30	4	1	X	T1 TSE C+	30	30	1	T1 FSE C+	32	3	1	T1 TSE AX C+	20	4	1

PROTOCOL: **METS- osteomyelitis**

THORACIC		SIEMENS 3.0				SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP
SAG COUNTER	T1 FLAIR	48	3	3		T1 TSE	45	6	1	T1 FSE	48	4	1	T1 TSE	45	6	0.6
SAG	T1 FLAIR	30	4	1		T1 TSE	30	4	1	T1 FSE	32	4	1	T1 TSE	32	3.5	1
SAG	T2 FRFSE	30	4	1		T2 TSE	30	4	1	TS FRFSE	32	4	1	T2 TSE	32	3.5	1
SAG	T2 STIR	30	4	1		T2 TSE FSAT	30	4	1	T2 FSE FS	32	4	1	T2 FS	32	3.5	1
AX	T2 FRFSE	20	4	1		T2 TSE	20	4	1	T2 FRFSE	20	4	1	T2 TSE	20	4	1

SAG FS	T1 FLAIR	30	4	1	X	T1 TSE FS C+	30	4	1	T1 FSE FS C+	32	4	1	T1 FS C+	32	4	1
AX FS	T1	20	4	1	X	T1 TSE FS C+	20	4	1	T1 FSE FS C+	20	4	1	T1 FS C+	20	4	1

PROTOCOL: **ROUTINE** Axial scout images should include the inferior kidneys to the L5-S1 level

LUMBAR		SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T2 FRFSE	26	5	1		T1 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1	
SAG	T1 FLAIR	26	5	1		T2 TSE	24	5	1	T1 FSE	26	4	1	T1 TSE	26	5	1	
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T2 TSE FSAT	26	5	1	
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1	
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1	

* ADD T1 COR FOR SCOLIOSIS

PROTOCOL: **W.WO - surgical, myelopathy** Axial scout images should include the inferior kidneys to the L5-S1 level

LUMBAR		SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T2 FRFSE	26	5	1		T2 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1	
SAG	T1 FLAIR	26	5	1		T2 TSE	24	4	1	T1 FSE	26	4	1	T1 TSE	26	5	1	
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T2 TSE FSAT	26	5	1	
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1	
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1	
AX	T1	22	4	1	X	T1 TSE C+	18	4	1	T1 SE C+	17	4	1	T1 TSE	16	4	1	
SAG	T1 FLAIR	26	5	1	X	T1 TSE C+	24	5	1	T1FRFSE C+	17	4	1	T1 TSE	26	5	1	

PROTOCOL: **METS - osteomyelitis,** Axial scout images should include the inferior kidneys to the L5-S1 level

LUMBAR		SIEMENS 3.0					SIEMENS 1.5				GE 1.5				FUJI 1.2			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	T2 FRFSE	26	5	1		T2 TSE	24	5	1	T2 FRFSE	26	4	1	T2 TSE	26	5	1	
SAG	T1 FLAIR	26	5	1		T2 TSE	24	5	1	T1 FSE	26	4	1	T2 SPIR	26	5	1	
SAG	T2 STIR	26	5	1		T2 TSE FSAT	24	5	1	T2 FRFSE FS	26	4	1	T1 TSE	26	5	1	
AX	T1	22	4	1		T1 TSE	18	4	1	T1 SE	17	4	1	T2 TSE	16	4	1	
AX	T2 FRFSE	22	4	1		T2 TSE	18	4	0.5	T2 FRFSE	17	4	1	T1 TSE	16	4	1	
AX FS	T1	22	4	1	X	T1 TSE FS C+	18	4	1	T1 FS	17	4	1	T1 SPIR	16	4	1	
SAG FS	T1 FLAIR	26	5	1	X	T1 TSE FS C+	24	5	1	T1 FS	17	4	1	T1 SPIR	26	5	1	

PROTOCOL: **W.WO**

SPINE LAB		SIEMENS 3.0					SIEMENS 1.5			
IMAGE PLANE	PULSE SEQ	FOV	SLICE THK	GAP	C+	PULSE SEQ	FOV	SLICE THK	GAP	
SAG	VIBE	30	1.4	0	0	FFE FSAT	30	1.25	0	
SAG	VIBE	30	1.4	0	X	FFE FSAT C+	30	1.25	0	
AX T2	SPACE	34	5	0	X					