

**PROTOCOL: MRI WHOLE SPINE SCREENING/SURVEY WWO**

**CLINICAL INDICATIONS/ HISTORY** "rule out" cord compression, fracture, ligament injury, trauma, osteomyelitis, infection, vertebral metastases.  
**HISTORY** \*\* Study designed for ordering MD in ER, ICU, or inpatient STAT \*\*

**TIPS:** "Two-station" sagittal of entire spine.  
 These surveys do not replace a full diagnostic spine.  
 For hospitals only, subject to approval from billing.  
 Low threshold to call neuroradiologist after non-con SAG series to get directions on targeted AX or post-con.

SCAN ORDER	PLANE	IMAGE CONTRAST/WEIGHTING	MODE	PULSE SEQ	COVERAGE	TR RANGE	TE RANGE	TI	FLIP ANGLE	THICKNESS/GAP (mm)	FOV (cm)	Max Pixel (mm) Fr x Ph	PHASE AXIS	SEND TO PACS	Max scan time (target)
1A UPPER	SAG	STIR	2D	FSE	C1-T7	3000-6000	50-70	150	>130	3/0	24-26	1.0X1.0	IS	FULL SERIES	6:00
1B LOWER	SAG	STIR	2D	FSE	T7-L5	3000-6000	50-70	150	>130	3/0	24-26	1.0X1.0	IS	FULL SERIES	6:00
2A UPPER	SAG	T2	2D	FSE	C1-T7	4000-7000	90-110	-	>130	3/0	24-26	.9X.9	IS	FULL SERIES	4:00
2B LOWER	SAG	T2	2D	FSE	T7-L5	4000-7000	90-110	-	>130	3/0	24-26	.9X.9	IS	FULL SERIES	4:00
3A UPPER	SAG	T1	2D	FSE	C1-T7	<790	MIN	-	>130	3/0	30-32	.9X.9	SI	FULL SERIES	4:00
3B LOWER	SAG	T1	2D	FSE	T7-L5	<790	MIN	-	>130	3/0	30-32	.9X.9	SI	FULL SERIES	4:00
4A UPPER	SAG	DWI (b600)	2D	RESOLVE/ FOCUS (EPI IF N/A)	COVER CORD COMPLETELY	>4000	MIN		90	3-4/0	32-36	2.5X2.5	AP	FULL SERIES + ADC MAP	4:00
4B LOWER	SAG	DWI (b600)	2D	RESOLVE/ FOCUS (EPI IF N/A)	COVER CORD COMPLETELY	>4000	MIN		90	3-4/0	32-36	2.5X2.5	AP	FULL SERIES + ADC MAP	4:00
4 (IF NECESSARY)	AX	T2	2D	FSE	TARGETED TO < 3 LEVELS OR AS DIRECTED BY RADIOLOGIST	4000-7000	90-110	-	>130	3-4/0	24-26	.9X.9	IS	FULL SERIES	3:00
If contrast ordered and / or asked for by neurorad															
5A UPPER +C	SAG	T1 FS	3D	FS /VIBE DIXON LAVA FLEX	COVER BONY SPINE C1-T7	MIN	IN-PHASE	-	15-25	3/0	30-32	.7X.9	SI	IN-PHASE AND WATER ONLY	6:00
5B LOWER +C	SAG	T1 FS	3D	FS /VIBE DIXON LAVA FLEX	COVER BONY SPINE T6-S2	MIN	IN-PHASE	-	15-25	3/0	14-20	.7X.9	IS	IN-PHASE AND WATER ONLY	6:00
4+C (ONLY IF RAD REQUESTS)	AX	T1 FS	3D	FS /VIBE DIXON LAVA FLEX	THRU ANY AREA OF SIGNIFICANT ENHANCEMENT	MIN	IN-PHASE	-	15-25	2/OVLP	14-20	.7X.9	PA	IN-PHASE AND WATER ONLY	3:00