

**PROTOCOL: CHEST WALL WWO OSTEO MYELITIS/TUMOR**

**COIL:** HIGH CHANNEL COUNT (12+) BODY ARRAY OR (8+) FLEX COIL; COIL-IN-TABLE SYSTEMS MAY USE POSTERIOR ARRAY COIL ELEMENTS

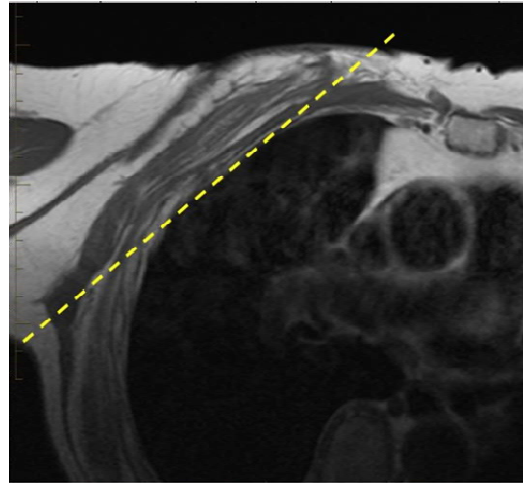
**POSITIONING:** Ideally place area of interest DOWN ON TABLE to minimize motion artifact from breathing (prone for anterior, decubitus for lateral, etc)

**CLINICAL INDICATIONS/HISTORY:** INFECTION, OSTEO MYELITIS, TUMOR

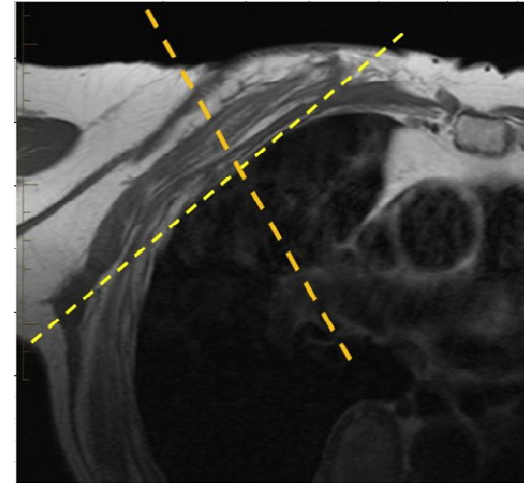
**PLOTTING:** Axial = true axial  
= along the long axis of the ribs in area of interest  
Sagittal = across the short axis of the ribs in area of interest

**COVERAGE:** Use markers above and below area of interest  
Cover entire area of interest

**TIPS:** Avoid using coils that don't cover area of interest  
phase encoding so that cardiac motion does not go through area



Example anterolateral chest wall lesion - in line with ribs = "CORONAL"



Example anterolateral chest wall lesion - across short axis of ribs = "SAGITTAL"

SCAN ORDER	PLANE	IMAGE CONTRAST/WEIGHTING	MODE/SEQ TYPE	Averages (NEX)	BW (Hz/pixel)	ETL	TR RANGE	TE RANGE	TI	FLIP ANGLE	SLICE/GAP (mm)	FOV (cm)	Resolution	Phase Axis	Send to PACS	Fat sat
1	AX	STIR	2D/FSE	1-2	150-180	8-12	3500-6000	20-30	140 - 150	>130	4/0.4	18-24	256 x 256	RL	FULL SERIES	
2	AX	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	4/0.4	18-24	256 x 256	RL	FULL SERIES	NONE
3	COR	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	3/0.3	18-24	256 x 256	RL	FULL SERIES	
4	SAG	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	4/0.4	18-24	256 x 256	SI	FULL SERIES	NONE
5	SAG	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	4/0.4	18-24	256 x 256	SI	FULL SERIES	
IF WO/W PRE-GAD: 6	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	4/0.4	18-24	256 x 256	RL	FULL SERIES	WEAK
<b>GIVE CONTRAST</b>																
POST-GAD: 7	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	4/0.4	18-24	256 x 256	RL	FULL SERIES	WEAK
POST-GAD: 8	SAG	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	4/0.4	18-24	256 x 256	SI	FULL SERIES	WEAK
<b>IF REQUESTED BY RADIOLOGIST</b>																
5 OPT (pre-gad)	SAG	T2	2D/FSE	1	150-180	8-12	3500-6000	65-75		>130	4/0.4	18-24	256 x 256	SI	FULL SERIES	NONE