

**PROTOCOL: SHOULDER OSTEO MYELITIS/TUMOR**

**COIL:** Multichannel dedicated shoulder coil is first choice. If not working or no shoulder coil, medium or large flex WRAPPED AROUND shoulder (do not just lay coil over shoulder).

**POSITIONING:** Arm at side, thumb up. Goal for biceps groove to be anterior (12 o'clock) on axial images. Often helpful to lay small finger and ring finger under thigh. Padding to minimize movement.

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

**PLOTTING:** Coronal = parallel to supraspinatus muscle belly (off axial localizer) Sagittal = perpendicular to supraspinatus muscle belly Axial = SHORT AXIS of glenoid (relative to sagittal)

**COVERAGE:** Above AC joint. Below quadrilateral space. Anterior to coracoid. Posterior to all rotator cuff muscles.

**TIPS:** Tech discretion for use of BLADE (or PROPELLER) - NOT first choice. If using BLADE use full k-space acquisition. (>100% blade COVERAGE) ABER = abducted externally rotated. Plot off sagittal (see diagrams).

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	COR	T2 FS	2D/FSE	1	150-180	8-12	3500-6000	65-75		>130	3.0/0	12-14	256 x 256	RL	FULL SERIES	WEAK
2	COR	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.0/0	12-14	256 x 256	RL	FULL SERIES	NONE
3	SAG	T2FS	2D/FSE	1	150-180	8-12	3500-6000	65-75		>130	3.0/0	12-14	256 x 256	AP	FULL SERIES	WEAK
4	SAG	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.0/0	12-14	256 X 256	AP	FULL SERIES	NONE
5	AX	T2FS	2D/FSE	1	150-180	8-12	3500-6000	65-75		>130	3.0/0	12-14	320 x 288	AP	FULL SERIES	WEAK
IF WO/W PRE-GAD: 6	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.0/0	12-14	256 X 256	AP	FULL SERIES	WEAK
GIVE CONTRAST																
POST-GAD: 7	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.0/0	12-14	256 X 256	AP	FULL SERIES	WEAK
POST-GAD: 8	COR	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.0/0	12-14	256 x 256	RL	FULL SERIES	WEAK

