

**PROTOCOL: SHOULDER WO \*METAL\* (POST ARTHROPLASTY) \*\*\*ALL SERIES MUST COMPLETELY INCLUDE PROSTHESIS\*\*\***

**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:** SUPINE, ARM AT SIDE, THUMB UP POSITION, POSITION SAME AS WITH ROUTINE SHOULDER

**CLINICAL INDICATIONS/** INFECTION, OSTEOMYELITIS, 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:** Must include entire prosthesis. Must extend above entire acromion

**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
1A (Siemens)	AX	PD SEMAC	2D	1	400-600 Hz/px	20-40	3500 - 6000	35-45		>110	3.5/0	14-16	512-384 x 256	RL	FULL SERIES	NONE
1B (GE)	AX	PD MAVRIC	3D	0.5	+/- 125kHz	22-26	3500 - 6000	35-45		>110	3.5/0	14-16	512-384 x 256	RL	FULL SERIES	NONE
2A (Siemens)	COR	STIR SEMAC	2D	1	400-600 Hz/px	20-40	3000 - 6000	35-45	140 - 150	>110	3.5/0	14-18	256 x 256	SI	FULL SERIES	
2B (GE)	COR	STIR MAVRIC	3D	0.5	+/- 125kHz	22-26	3500 - 6000	35-45	140 - 150	>110	3.5/0	14-18	256 x 256	SI	FULL SERIES	
3	COR	PD WARP/MARS	2D/FSE	3-5	300-500 Hz/px	16-24	3500 - 6000	24-40		>110	3.5/0	14-18	512-384 x 320	SI	FULL SERIES	NONE
4A (Siemens)	SAG	STIR SEMAC	2D	1	400-600 Hz/px	20-40	3000 - 6000	35-45	140 - 150	>110	3.5/0	14-18	256 x 256	SI	FULL SERIES	
4B (GE)	SAG	STIR MAVRIC	3D	0.5	+/- 125kHz	22-26	3500 - 6000	35-45	140 - 150	>110	3.5/0	14-18	256 x 256	SI	FULL SERIES	
5	SAG	T1 WARP/MARS	2D/FSE	3-5	300-500 Hz/px	2-12	450-650	6-18		>110	3.5/0	14-18	320 x 256	SI	FULL SERIES	NONE