

**PROTOCOL: TOE WWO MASS/OSTEO**

**COIL:** DEDICATED 8-20 CHANNEL FOOT/ANKLE COIL, OR IF UNAVAILABLE, HIGH-CHANNEL-COUNT (12-20CH) FLEX COIL, POSITIONED TO COVER AREA OF INTEREST

**POSITIONING:** Supine. Position as if standing (near 90 degree angle tibia to plantar foot). Toes as straight as possible. Extra padding dorsal to toes so they cannot move. Padding under heel.

**CLINICAL INDICATIONS/ HISTORY:** INFECTION, OSTEOMYELITIS, TUMOR

**PLOTTING:** Short axis = short axis of midfoot/forefoot (figure) Sagittal = sagittal to midfoot/forefoot (may be oblique to true sagittal) Long axis = Long axis to MT shafts. Connect 1st to 5th (mid shaft level)

**COVERAGE:** Approx tips of toes to mid shaft metatarsals. Include entire affected area. Include skin surface.

**TIPS:** Enlarge FOV if needed to see entire affected area or entire mass. DO NOT scan bilateral together.

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	SHORT AXIS	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	3.5/0	7-9	256 x 256	RL	FULL SERIES	
2	SHORT AXIS	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 x 256	RL	FULL SERIES	NONE
4	SAG	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	3.5/0	7-9	256 X 256	SI	FULL SERIES	
5	SAG	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 x 256	SI	FULL SERIES	NONE
3	LONG AXIS	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 x 256	SI	FULL SERIES	NONE
IF WO/W PRE-GAD: 6	SHORT AXIS	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 X 256	RL	FULL SERIES	WEAK
<b>GIVE CONTRAST</b>																
POST-GAD: 7	SHORT AXIS	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 X 256	RL	FULL SERIES	WEAK
POST-GAD: 8	SAG	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	7-9	256 x 256	SI	FULL SERIES	WEAK