

**PROTOCOL: KNEE OSTEOMYELITIS/TUMOR**

**COIL:** Multichannel knee coil. If too large or swollen try large flex coil wrapped around knee. Do NOT just lay flex coil over knee.

**POSITIONING:** Supine, knee extended. Make patient as comfortable as possible.

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

**PLOTTING:** Axial = true axial to femur parallel to posterior margin of femoral condyles  
Coronal = perpendicular to posterior margin of femoral condyles  
Sagittal =

**COVERAGE:** Above patella (must see quad tendon). Below tibial tubercle. Include all muscles, tendons, ligaments, bones. Must see entire lesion/affected area.

**TIPS:** If necessary reposition coil so signal on localizer is highest at joint space. Knee is one of easiest joints to hold still if patient is comfortable

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	150-180	8-12	3500-6000	20-30	140 - 150	>130	3.5/0	14-15	256 x 256	RL	FULL SERIES	
2	AX	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	14-15	256 x 256	RL	FULL SERIES	NONE
3	SAG	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	3.5/0	14-15	256 x 256	SI	FULL SERIES	
4	COR	STIR	2D/FSE	1	150-180	8-12	3500-6000	20-30	140 - 150	>130	3.5/0	14-15	256 X 256	SI	FULL SERIES	
5	COR	T1	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	14-15	256 x 256	SI	FULL SERIES	NONE
IF WO/W PRE-GAD: 6	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	14-15	256 X 256	RL	FULL SERIES	WEAK
GIVE CONTRAST																
POST-GAD: 7	AX	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	14-15	256 X 256	RL	FULL SERIES	WEAK
POST-GAD: 8	COR	T1FS	2D/FSE	1	150-180	2-3	450-650	8-10		>130	3.5/0	14-15	256 x 256	SI	FULL SERIES	WEAK

