

Department: Radiology	Section: MRI	Effective Date: 06/2011
Procedure Number: 14.16.14		Revision: 05/2014

EXAM: OSTEOMYELITIS PROTOCOL

ORIENTATION: FEET FIRST/SUPINE

COIL: HD BODYFULL/TORSOPA

PLANE	3 PLN LOC	COR STIR	SAG STIR	SAG T1	AX STIR	AX T2	AX T1	AX T1 FS	AX T1 FS C+	SAG T1 FS C+	COR T1 FS C+
SEQ	GRE	FSE IR	FSE IR	FSE XL	FSE IR	FSE XL	FSE XL	FSE XL	FSE XL	FSE XL	FSE XL
MODE	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D	2D
IMAGING OPTIONS	SEQ/FAST	FC/NPW/SEQ/FAST	FC/NPW/SEQ/FAST	FC/NPW/EDR/FAST/ZIP512	FC/NPW/SEQ/FAST	FC/NPW/EDR/FAST/ZIP512	FC/NPW/EDR/FAST/ZIP512	FC/NPW/EDR/FAST/ZIP512	FC/NPW/EDR/FAST/ZIP512	FC/NPW/EDR/FAST/ZIP512	FC/NPW/EDR/FAST/ZIP512
TE		50 ms	50 ms	MIN FULL	50 ms	90 ms +	MIN FULL	MIN FULL	MIN FULL	MIN FULL	MIN FULL
TR		3800 ms	3800 ms	400-600 ms	3800 ms	3800 ms+	400-600 ms	400-600 ms	400-600 ms	400-600 ms	400-600 ms
TI		150 ms	150 ms		150 ms						
FLIP ANGLE											
ETL		9	9	2	9	12-18	2	2	2	2	2
BW		20.83	20.83	15.63	20.83	15.63	15.63	15.63	15.63	15.63	15.63
FOV	28	20	20	20	20	20	20	20	20	20	20
SLICE THICKNESS	5	4	4	4	4	4	4	4	4	4	4
SLICE SPACING	5	1	1	1	1	1	1	1	1	1	1
Frequency	256	256	256	256	256	256	256	256	256	256	256
Phase	128	192	192	192	192	192	192	192	192	192	192
NEX	1	2	2	2	2	2	2	2	2	2	2
PHASE FOV	1										
FREQ DIR	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP	UNSWAP
FLOW COMP DIR		FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ	FREQ
SHIM	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO	AUTO
PHASE CORRECT	OFF	OFF	OFF	ON	OFF	ON	ON	ON	ON	ON	ON

Department: Radiology	Section: MRI	Effective Date: 06/2011
Procedure Number: 14.16.14		Revision: 05/2014

NOTES: Mark the area of interest. Coils other than those listed may be utilized for this protocol. The FOV may be adjusted for the part being imaged. If the fat is not suppressed, scan the forefoot and the hindfoot with a smaller fov, as per Dr. Simoncini. Split these into two separate scans, as per Dr. Simoncini. When evaluating the foot for osteomyelitis, it is difficult to determine whether or not the patient truly has osteomyelitis when the fat is not uniformly suppressed pre/post contrast. Please evaluate the quality of the fat sat on the pre contrast images. If the fat is not suppressed uniformly, try a smaller fov, Per Dr. Simoncini. If the fat is still not suppressed, do T1s PRE AND POST WITHOUT FAT SAT, as per Dr. Simoncini.

Written: 06/2011 Reviewed: 11/2012; 05/2014 Revised: 06/2013; 10/2013