

Whole Body MRI for Chronic Recurrent Multifocal Osteomyelitis

MRI Protocols of the
ESSR Arthritis Subcommittee



Recommendations of the ESSR Arthritis Subcommittee for the Use of Magnetic Resonance Imaging in Musculoskeletal Rheumatic Diseases. Semin Musculoskelet Radiol 2015;19:396–411

Acronyms

Cor= coronal

CRMO= Chronic Recurrent Multifocal Osteomyelitis

FOV= field of view

STIR= short tau inversion recovery

TE= echo time (ms)

TR= repetition time (ms)

TIRM= turbo inversion recovery magnitude

MRI scan

- Patient in supine position with the head first
- Hands either under the pelvis (preferred for immobilisation) or over the abdomen
- Elbows often outside the field of view
- Multiple coils – to ensure coverage
- Coil coverage: Head to feet
- 3-5 stations depending on age and height of the patient

Recommended sequences



T1



STIR



TIRM

MRI protocol

Recommended Sequences	FOV (mm)	Slice thickness (mm)	TR (ms)	TE (ms)	Matrix
T1	550	3	300-600	8	640x640
STIR	550	3	3000-4000	70	512x512
TIRM	550	2	4000-6120	60	512 x 512

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