Whole Body MRI for Chronic Recurrent Multifocal Osteomyelitis

MRI Protocols of the ESSR Arthritis Subcommittee

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
# MRI protocol

<table>
<thead>
<tr>
<th>Recommended Sequences</th>
<th>FOV (mm)</th>
<th>Slice thickness (mm)</th>
<th>TR (ms)</th>
<th>TE (ms)</th>
<th>Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>T1</td>
<td>550</td>
<td>3</td>
<td>300-600</td>
<td>8</td>
<td>640x640</td>
</tr>
<tr>
<td>STIR</td>
<td>550</td>
<td>3</td>
<td>3000-4000</td>
<td>70</td>
<td>512x512</td>
</tr>
<tr>
<td>TIRM</td>
<td>550</td>
<td>2</td>
<td>4000-6120</td>
<td>60</td>
<td>512 x 512</td>
</tr>
</tbody>
</table>
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