Sacroiliac Joints

MRI Protocols of the ESSR Arthritis Subcommittee

Acronyms

Ax = axial
CE = contrast enhanced
FOV = field of view
Obl = oblique
Sag = sagittal
STIR = Short Tau Inversion Recovery
TE = echo time (ms)
TR = repetition time (ms)
MRI scan

- Patient in supine position with the feet first
- Spine coil or body phased array coil
Localizer

*Oblique coronal plane:* parallel to the long axis of the sacrum - tangent to the posterior surface of S2

*Oblique axial plane:* perpendicular to the coronal orientation
Recommended Sequences:

- Obl cor T1
- Obl cor T1FS
- Obl axial STIR
- Obl cor T2 FS or STIR or TIRM or PD FS
Recommended Sequences:

CE Obl ax T1 FS

CE Obl cor T1 FS
## MRI protocols

<table>
<thead>
<tr>
<th>Recommended Sequences</th>
<th>FOV (cm)</th>
<th>Slice thickness (mm)</th>
<th>TR (ms)</th>
<th>TE (ms)</th>
<th>Matrix</th>
</tr>
</thead>
<tbody>
<tr>
<td>Obl cor T1</td>
<td>24-30</td>
<td>3 (max 4)</td>
<td>400-700</td>
<td>8-20</td>
<td>&gt;350</td>
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<tr>
<td>Obl cor T2 fat sat</td>
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<td>3 (max 4)</td>
<td>4000-6000</td>
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