



# Guidelines for MR Imaging of Sports Injuries

European Society of Skeletal Radiology  
Sports Sub-committee

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# Abbreviations and clarifications

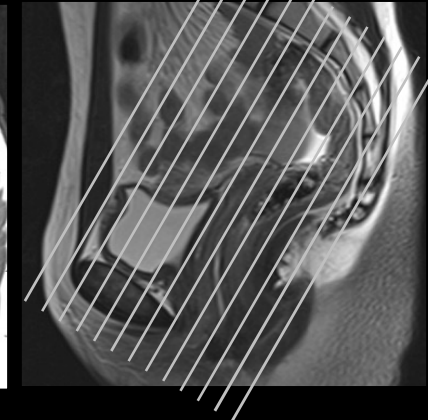
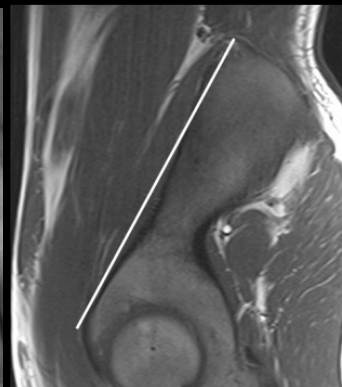
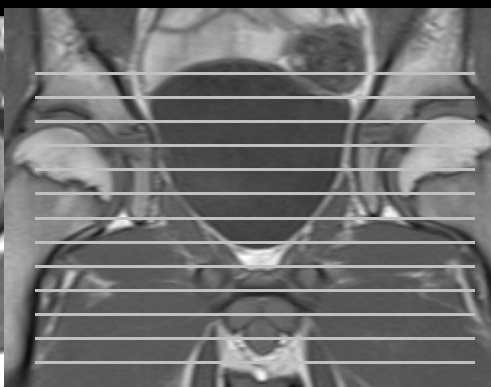
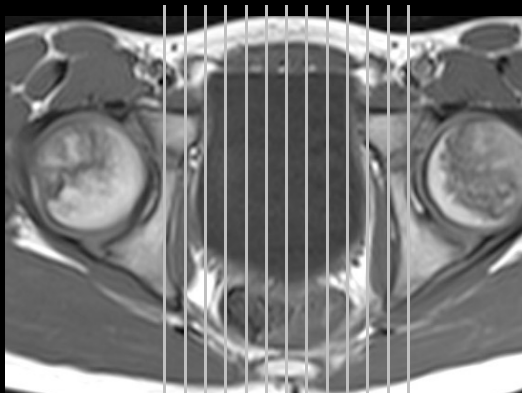


- Ax = axial
- Cor = coronal
- Sag = sagittal
- FOV = field of view
- PD = proton density
- TE = time to echo in milliseconds
- FS = fat suppressed
- Int = intermediate
- Int FS: this is a fat suppressed sequence with a long TR and a TE between that of a traditional PD (e.g. TE= 10-20) and a traditional T2 (e.g. TE=80-100). The advantage of this sequence is that the TE is short enough to maintain sufficient signal for visualisation of the anatomy (like a PD) yet long enough to be more fluid sensitive (like a T2)
- For STIR sequence, TI (inversion time) should be 140-150 at 1.5T

# Groin pain



- Patient in supine position and place marker at site of pain
- Use large surface / body coil
- Coronal STIR of pelvis - include volume from anterior to the symphysis pubis through the entire sacrum
- Sagittals include volume centrally from medial acetabular walls
- Axials include volume from acetabular roofs distal to inferior pubic rami
- Obliques are parallel to anterior margin of iliac bone



# Groin pain

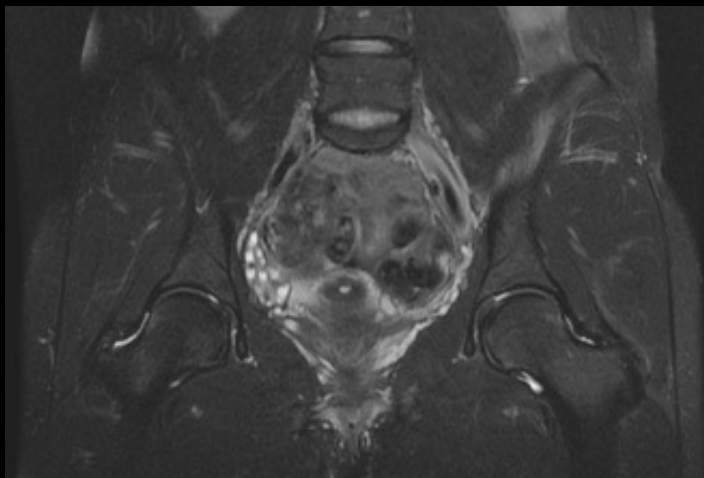


|                                  | FOV<br>(max) | Slice<br>(max) | TE    | Matrix<br>(min) |
|----------------------------------|--------------|----------------|-------|-----------------|
| <i>entire pelvis</i><br>Cor STIR | 38 cm        | 6 mm           | 40-60 | 256x256         |
| Cor Int FS                       | 16 cm        | 3.5 mm         | 40-60 | 256x256         |
| Obl Int FS                       | 16 cm        | 3.5 mm         | 40-60 | 256x256         |
| Sag Int FS                       | 16 cm        | 3.5 mm         | 40-60 | 256x256         |
| Ax T1                            | 16 cm        | 3.5 mm         | Min   | 256x256         |

# Groin pain



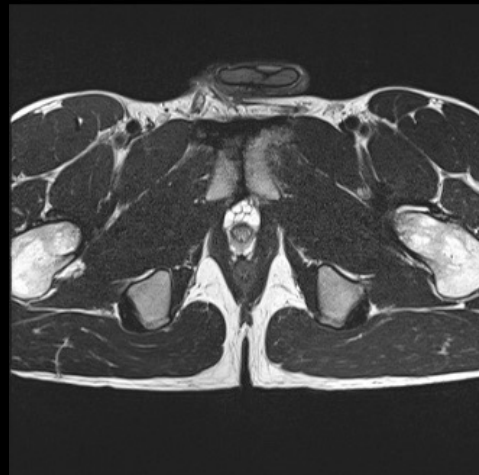
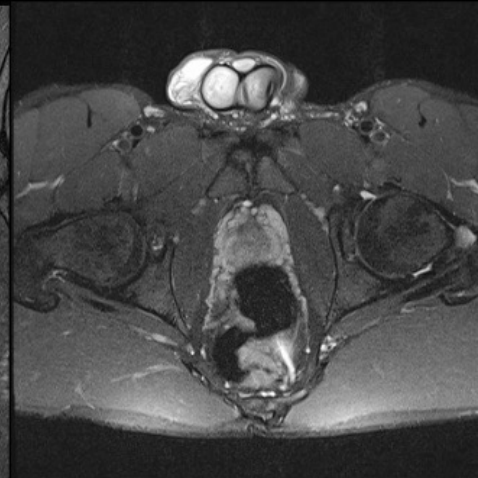
Cor STIR Pelvis



Cor Int FS



Oblique Int FS



Ax T1



Sag Int FS