

Department of Radiology Techniques

Radiological Position

The Second Stage

Semester 2



Shaft of Femur Positions

Lecture 6

Assist. Lecturer

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Basic Positions of Femur Shaft

1- Anterior – Posterior

2- Lateral

Cassette In or Out – Bucky (14x17 Inch)

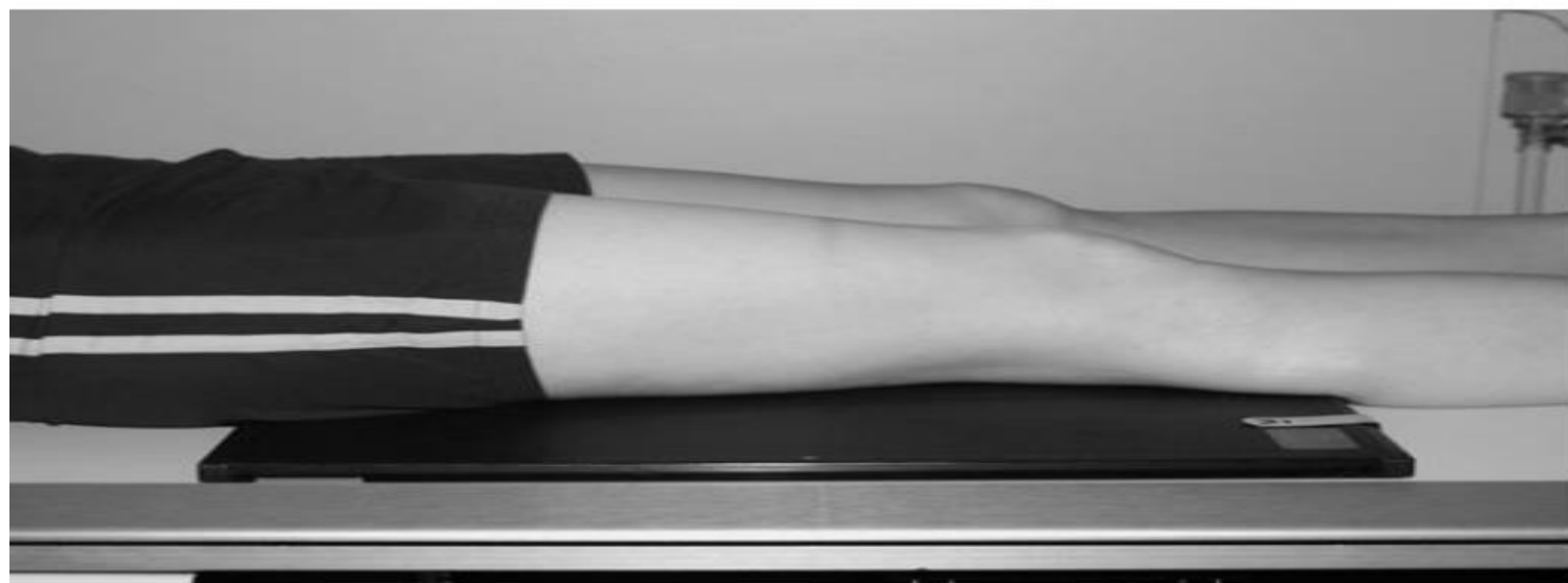
Antero-posterior

Position of patient and cassette

- *The patient lies supine on the X-ray table, with both legs extended.*
- *The affected limb is rotated to centralize the patella over the femur.*
- *Sandbags are placed below the knee to help maintain the position.*
- *The cassette is positioned in the Bucky tray immediately under the limb, adjacent to the posterior aspect of thigh to include both hip and knee joints.*
- *Alternatively, the cassette is positioned directly under the limb, against the posterior aspect of the thigh to include the knee joint.*

Direction and centering of the X-ray beam

- *Centre to the middle of the cassette, with the vertical central ray at 90 degrees to an imaginary line joining both femoral condyles.*





Antero-posterior radiograph of femur, hip down, showing fracture of upper femoral shaft



Antero-posterior radiograph of normal femur, knee up

Lateral

Position of patient and cassette

- From the anterior-posterior position, the patient rotates on to the affected side, and the knee is slightly flexed.*
- The pelvis is rotated backwards to separate the thighs.*
- The limb is then adjusted to vertically superimpose the femoral condyles.*
- Pads are used to support the opposite limb behind the one being examined.*
- The cassette is positioned in the Bucky tray under the lateral aspect of the thigh to include the knee joint and as much of the femur as possible.*
- Alternatively, the cassette is positioned directly under the limb, against the lateral aspect of the thigh, to include the knee joint.*

Direction and centering of the X-ray beam

- Centre to the middle of the cassette, with the vertical central ray parallel to the imaginary line joining the femoral condyles.*



Lateral radiograph of femur, hip down, showing prosthetic hip



Lateral radiograph of femur, knee up, showing an area of myositis ossificans

Thanks

The word "Thanks" is written in a large, pink, serif font with a subtle texture. It is decorated with three pink roses and green leaves. One rose is positioned above the 'h', another to the left of the 'T', and a third to the right of the 's'. The roses are detailed with multiple layers of petals and small green leaves on thin brown stems.