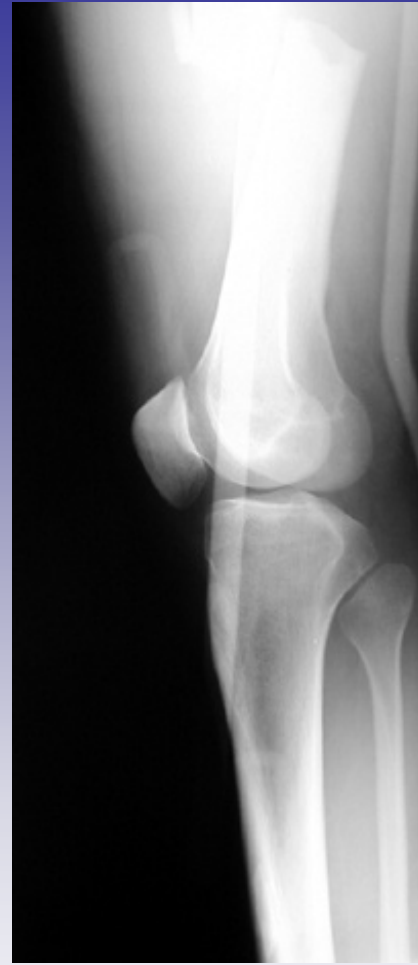


ANTEROGRADE INTRAMEDULLARY NAILING

髋关节置换-



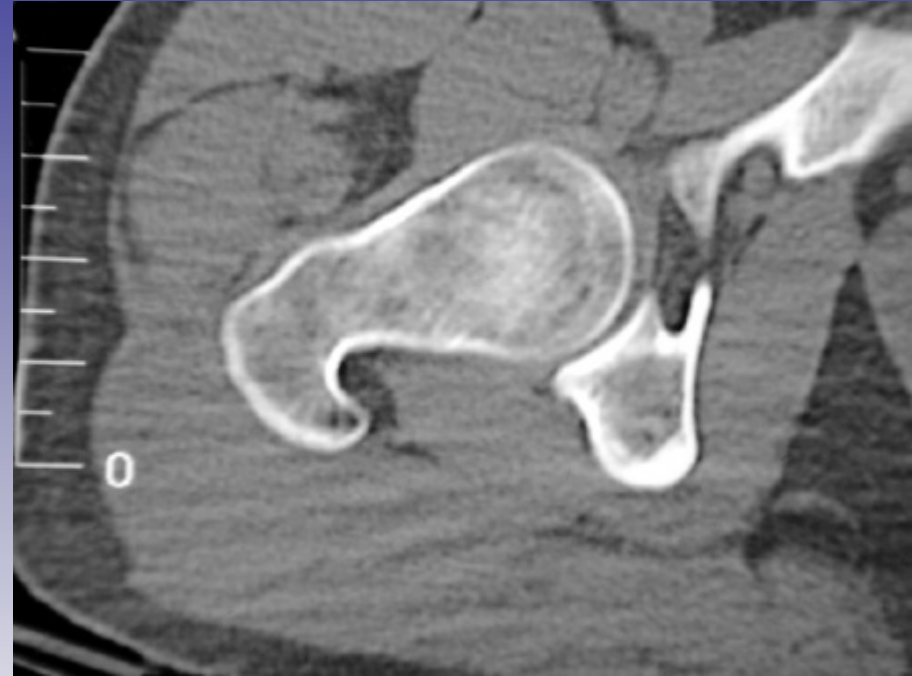
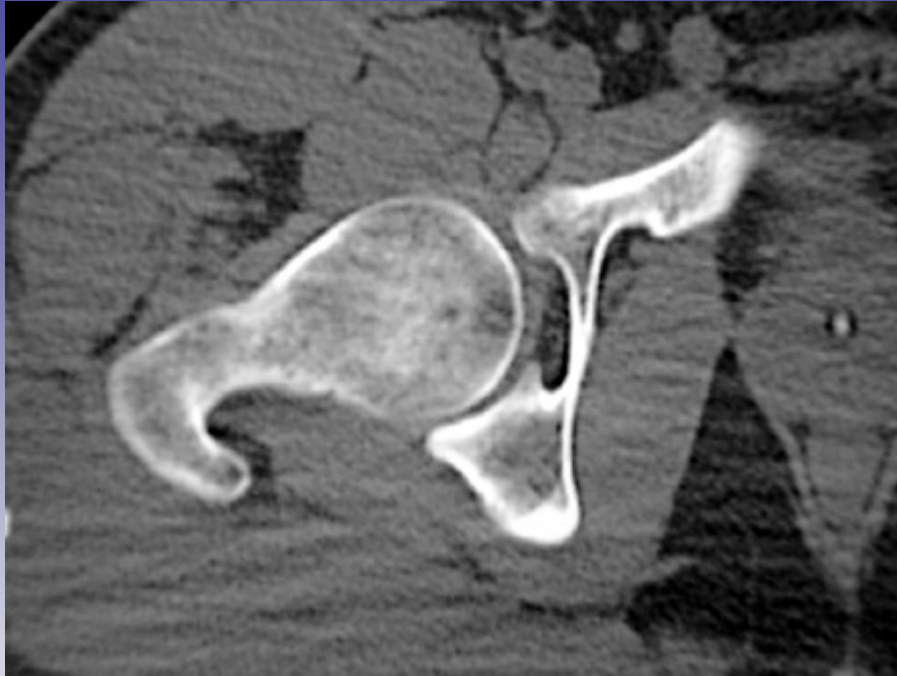
These images demonstrate a distal femoral shaft fracture occurring from blunt trauma.

髌关节置换-

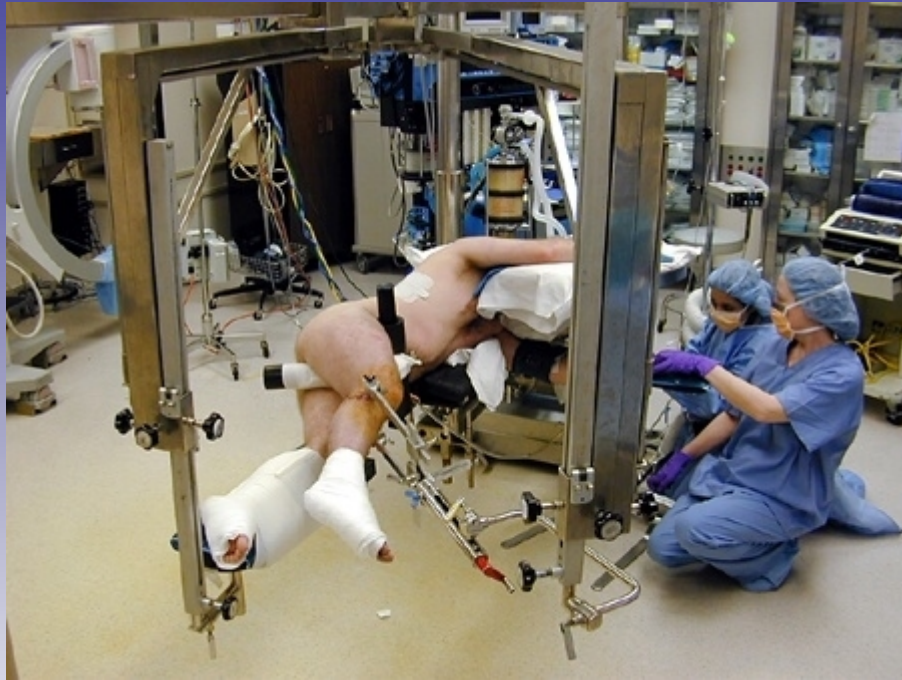


Before performing antegrade femoral nailing, a high-quality AP radiograph of the hip is necessary to rule out occult femoral neck fracture.

髋关节置换-



Many patients with femoral shaft injuries have CT scans performed to rule out intraabdominal injury. The CT scan cuts through the femoral neck should also be reviewed to rule out fracture.



Lateral decubitus position is preferred for antegrade femoral nailing in the patient with normal pulmonary status and no spine or pelvic injury. The affected leg is flexed, exposing the piriformis fossa without steric interference from the patient's torso.

髋关节置换-



The downside leg is well supported and padded to avoid neuropraxia. The surgeon is pointing to the starting point for the piriformis entry point.

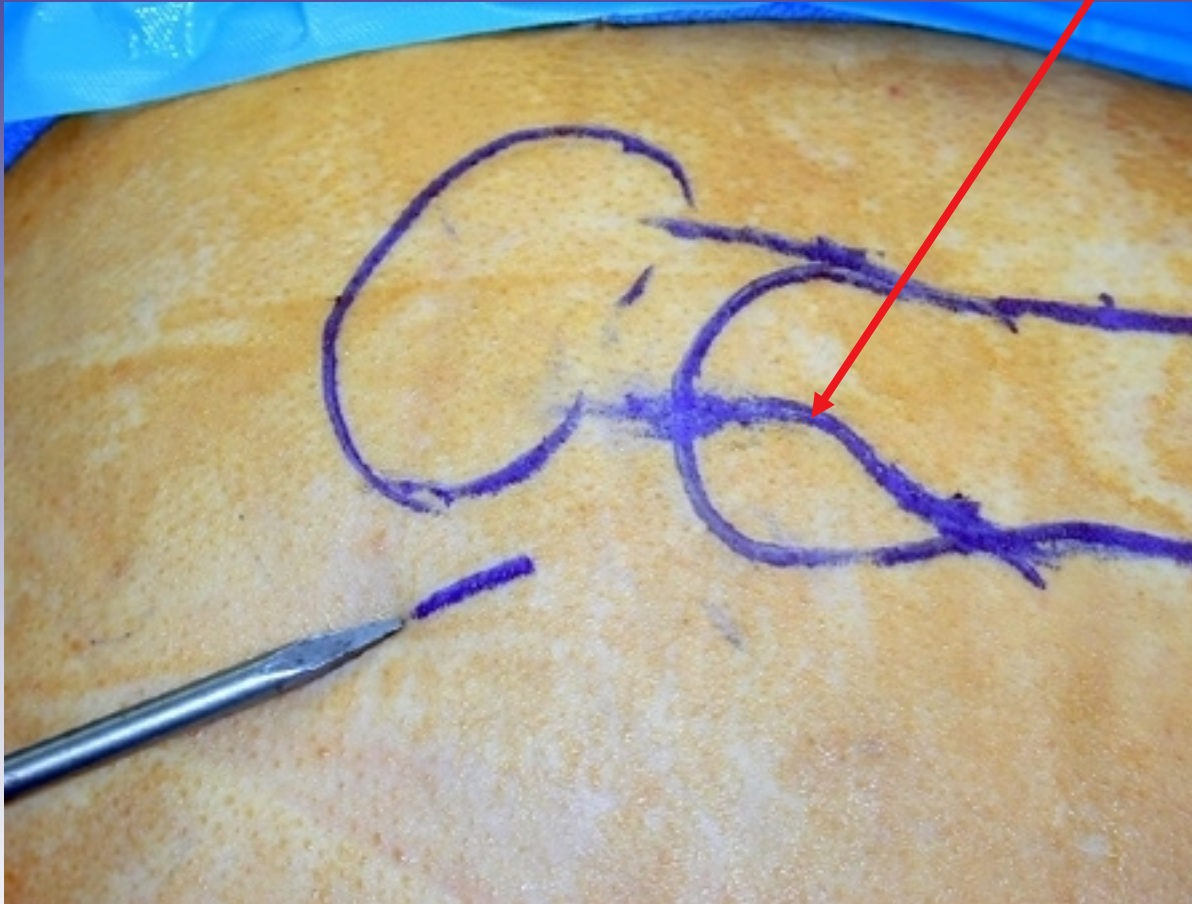
腕关节置换



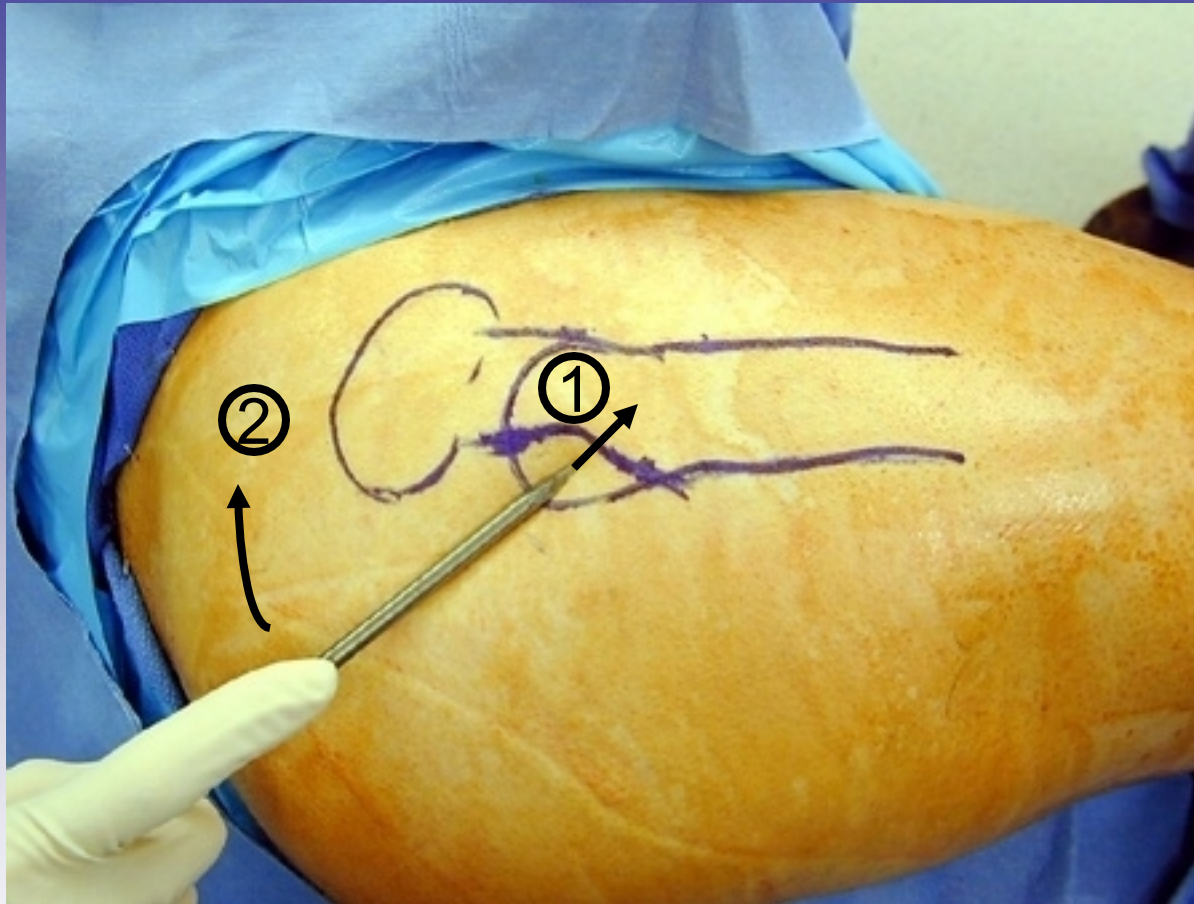
View of the area that is prepped out for performing the nailing.

髋关节置换-

**PIRIFORMIS
FOSSA**



The piriformis fossa entry portal is directly in line with the canal of the shaft. However, it is slightly posterior to the femoral neck. It is curvilinear and angled posteriorly.

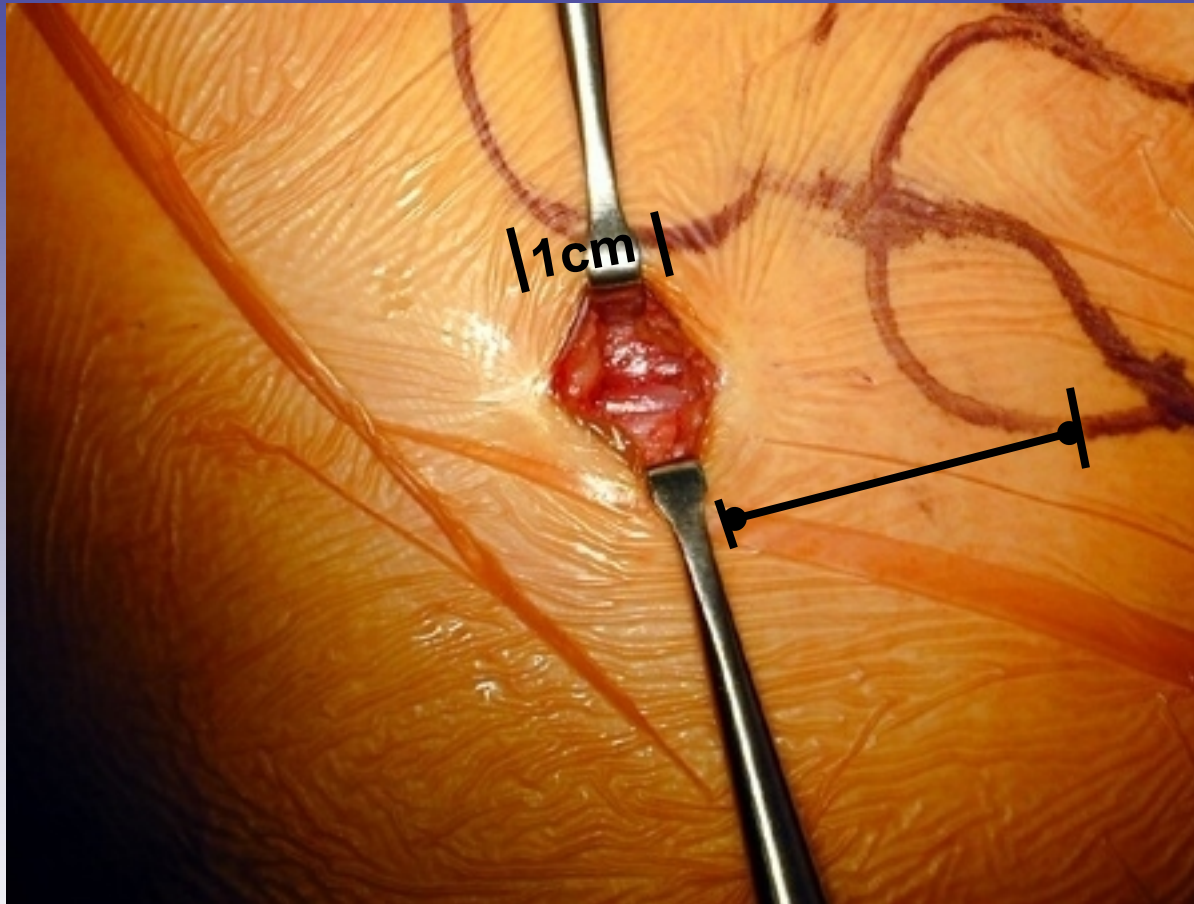


Because the piriformis entry portal is on a sloped surface, a straight awl must be introduced first at an angle to the femoral shaft directly anteriorly... 髋关节置换-



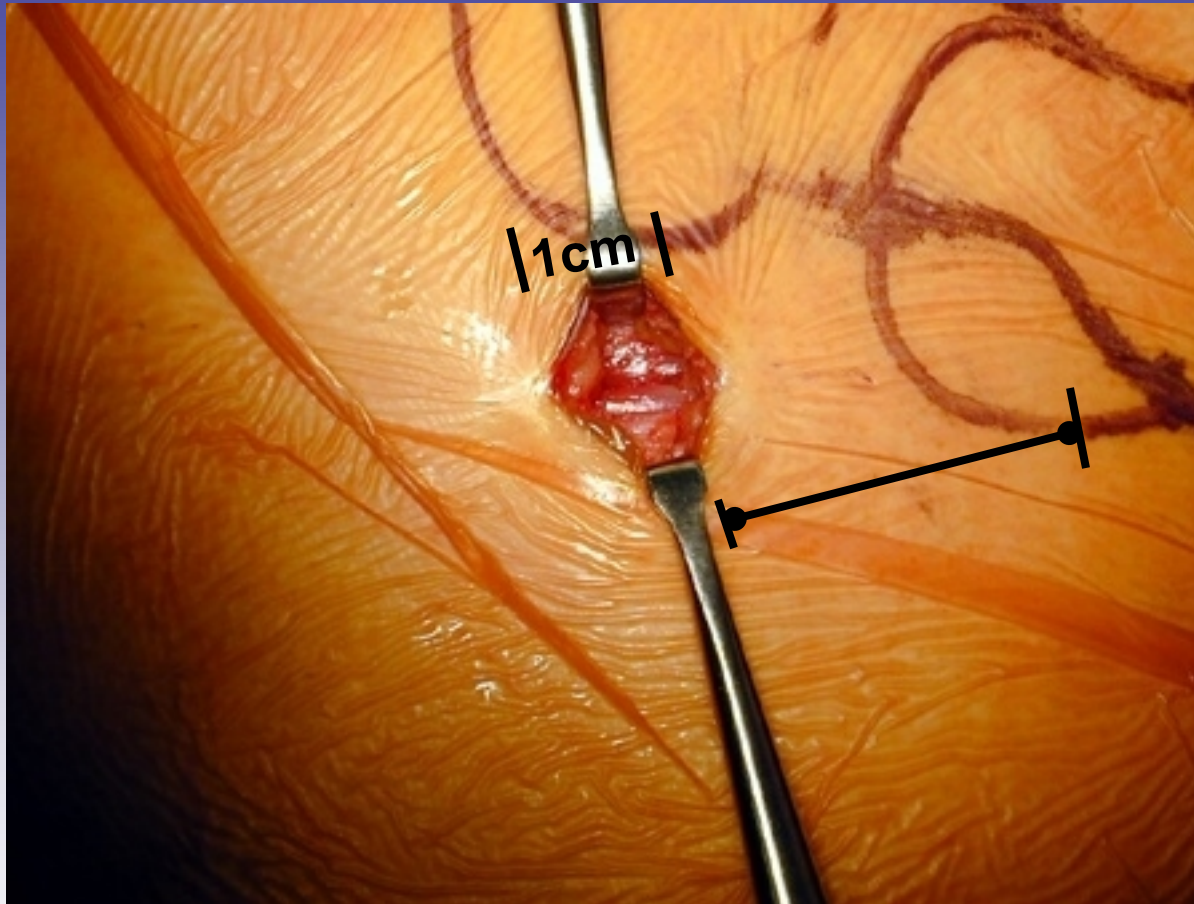
...and then as it's introduced, the hand is raised up to go in line with the femoral shaft.

髋关节置换-

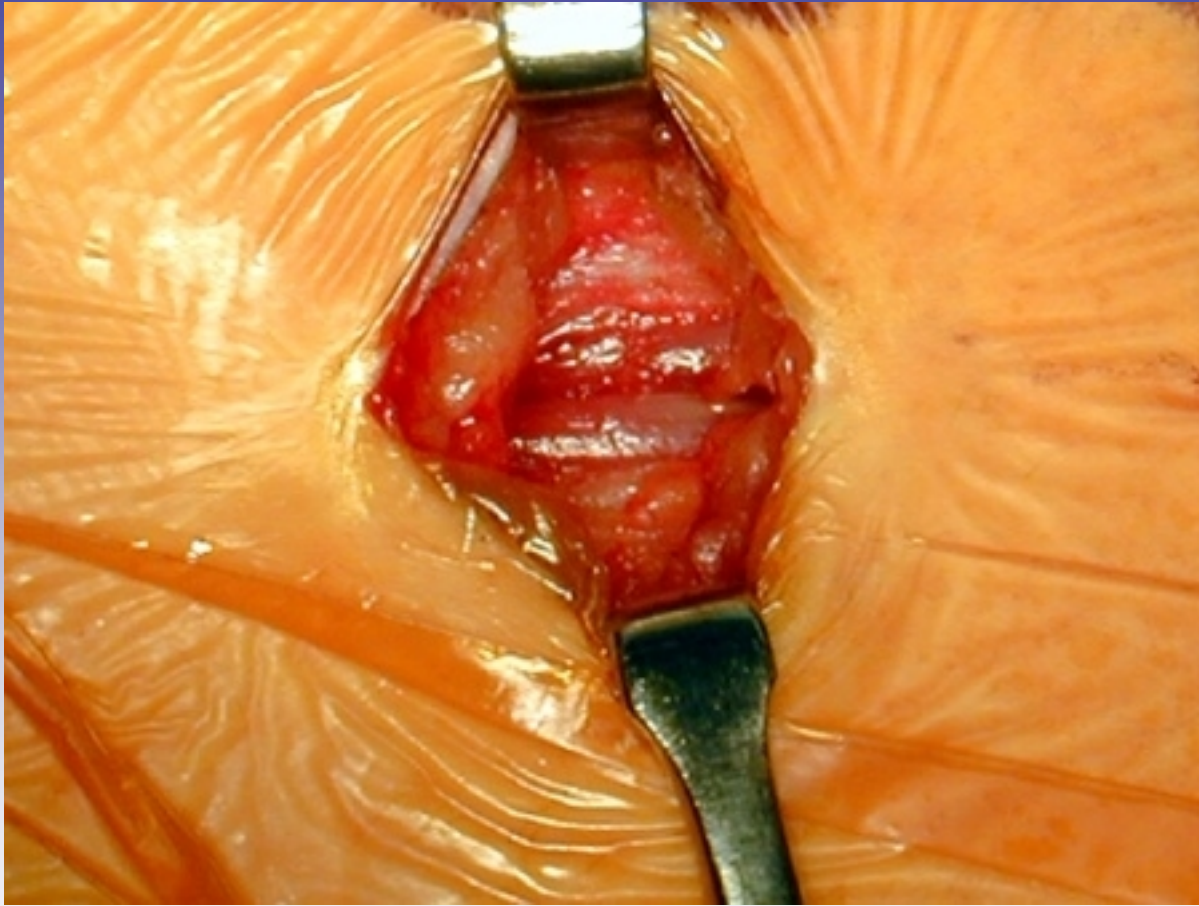


The skin incision, which can be approximately 1 to 1-1/2cm in length, should be made at a distance away from the piriformis fossa to allow for direct entry into the fossa. This can be best estimated by looking

腕关节置换-

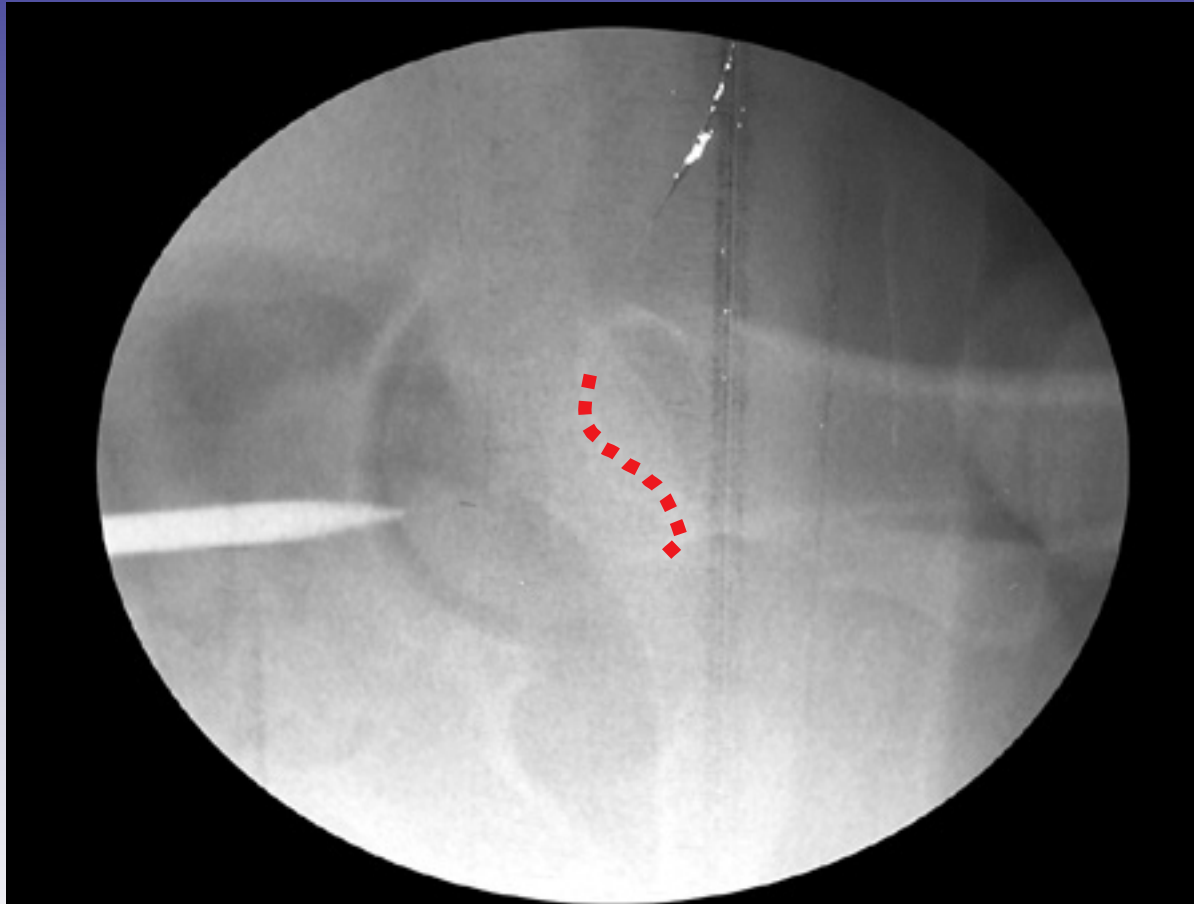


at the AP radiograph to determine how proximal the incision needs to be with respect to the trochanter. The heavier the patient, the more proximal in the buttocks the incision needs to be in order to be in line with the femoral shaft.



The fascia of the Tensor fascia Lata muscle is divided, exposing some of the musculature.

髋关节置换-

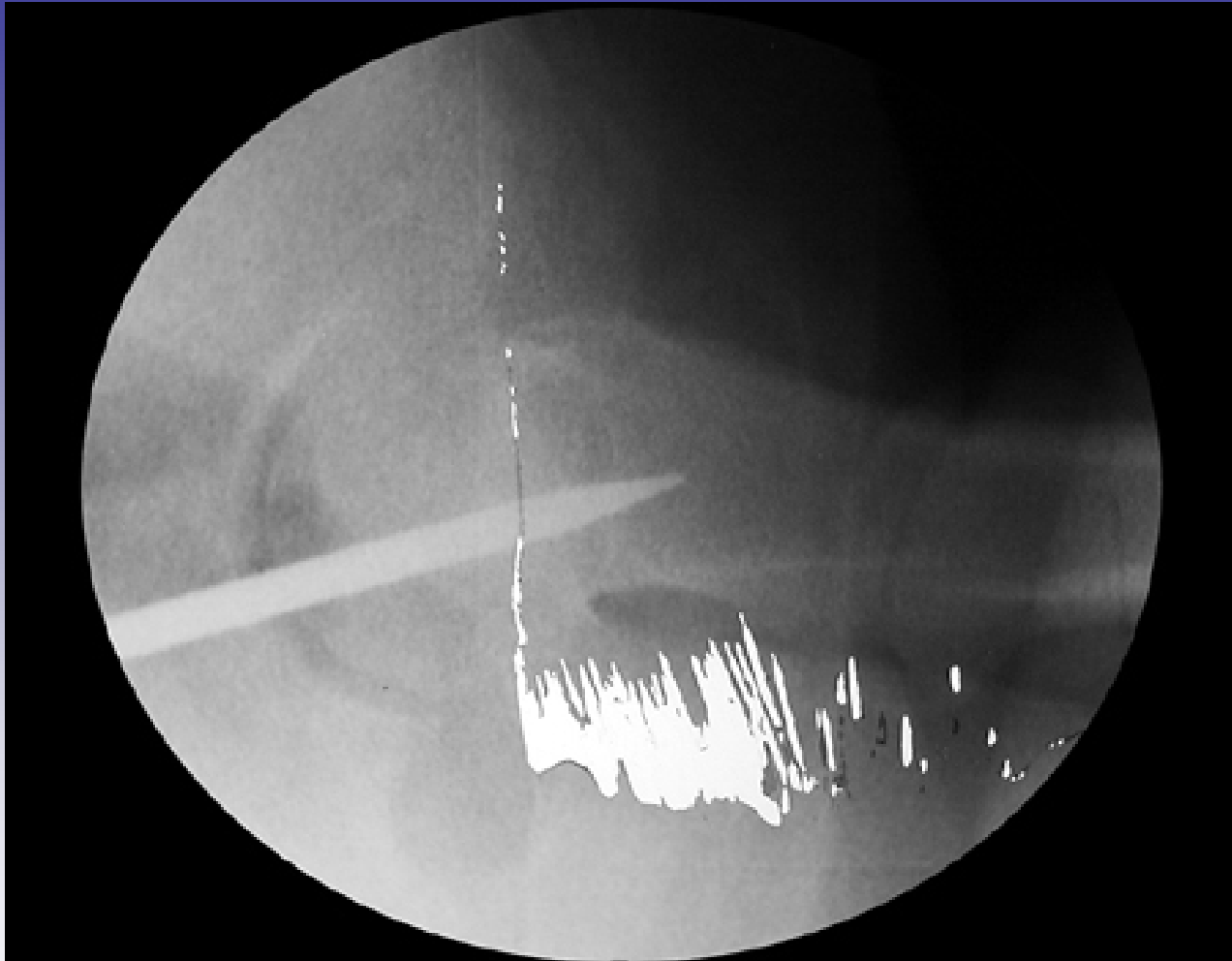


The perfect lateral radiograph of the hip demonstrates the neck to be colinear with the shaft and slightly anterior to it. The piriformis fossa is easier visualized.

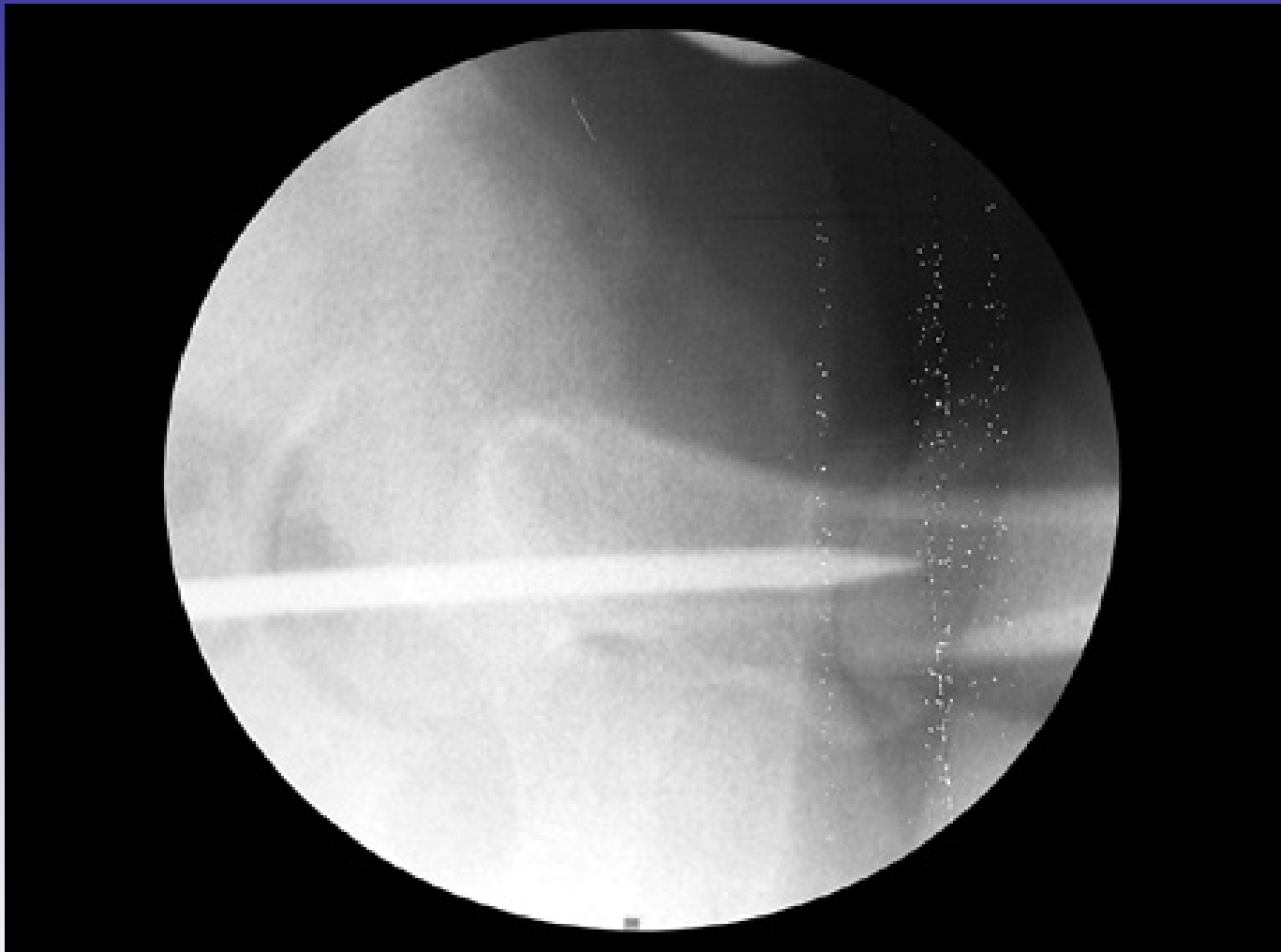


The straight awl is introduced through the incision, then gently placed against the piriformis fossa directed anteriorly.

腕关节置换-



The awl is introduced into the femoral canal; as it enters the bone, the awl is adjusted to be in line with the femoral shaft by moving the hand and awl anteriorly.

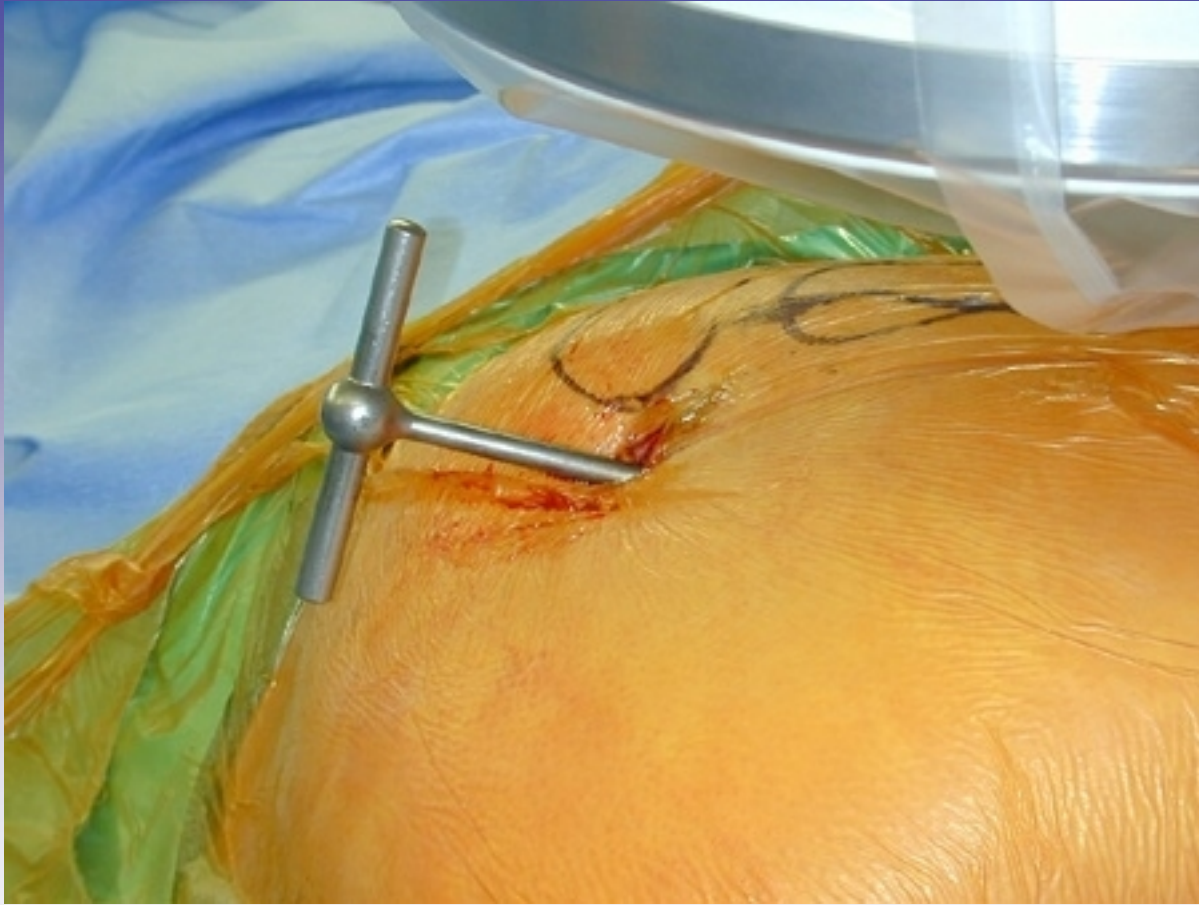


The awl is introduced into the femoral canal; as it enters the bone, the awl is adjusted to be in line with the femoral shaft by moving the hand and awl anteriorly.



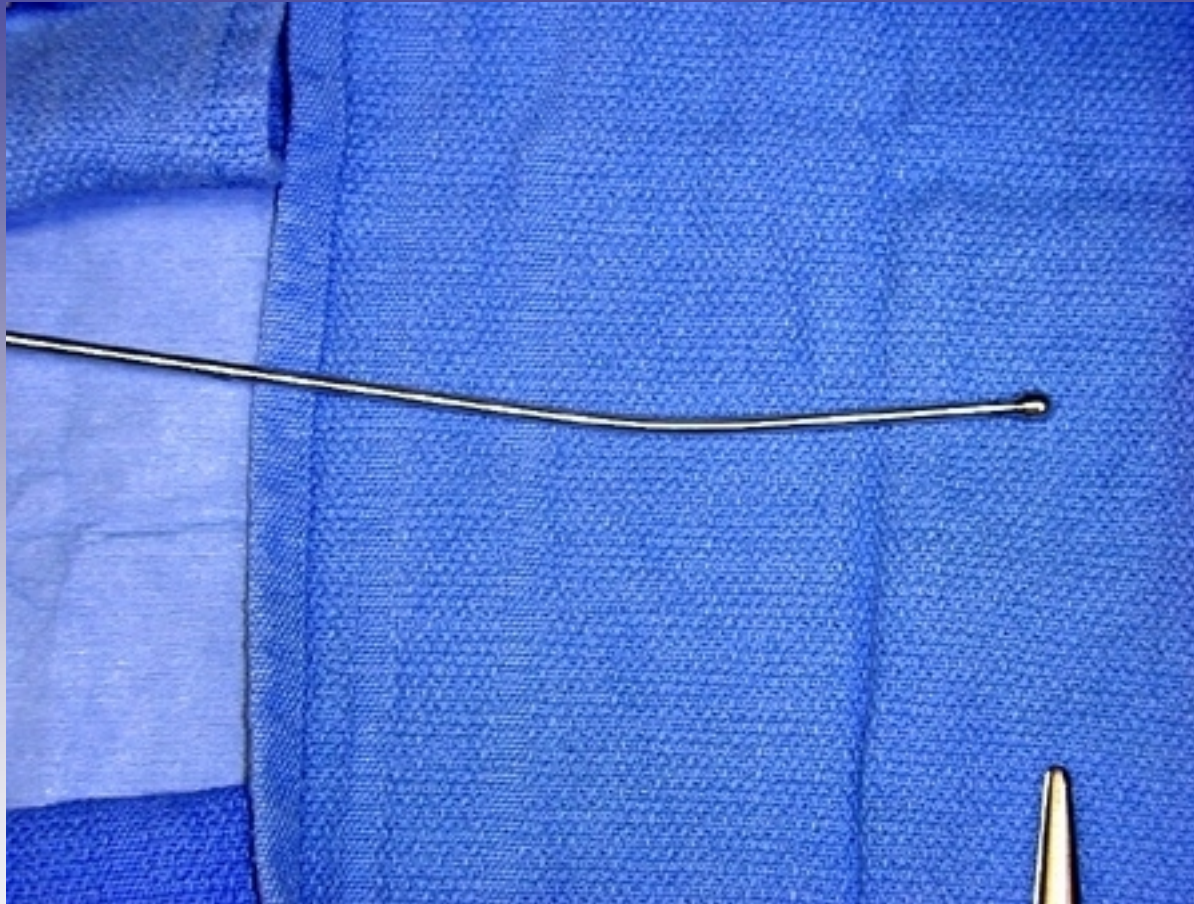
Once the awl has been introduced gently, it is tapped down past the calcar to allow for easy passage of the guidewire.

腕关节置换-



Once the awl has been introduced gently, it is tapped down past the calcar to allow for easy passage of the guidewire.

腕关节置换-



The guidewire should have a gentle distal bend to allow easy passage across the fracture site. The guidewire is introduced down the femoral shaft..

髋关节置换-

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