

Treatment of Posttraumatic Femoral Head Osteonecrosis With Muscle Pedicle Graft and Cephalomedullary Nail in a Young Male Patient

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This video reviews the case presentation and surgical technique for management of posttraumatic femoral head osteonecrosis with the use of a muscle pedicle graft and cephalomedullary nail in a young male patient.

The patient is a 35-year-old man who was injured during a fall. The patient sustained a femoral neck fracture and underwent surgical treatment within the first 24 hours from admission. The surgeons opted for osteosynthesis with the use of three cannulated screws.

Initial postoperative radiographs demonstrated less than ideal reduction and imperfect lag screw positioning. The wound healed without complications, and weight bearing was forbidden during the first 3 months postoperatively. At 3 months postoperatively, a gradual increase of weight bearing was allowed. At 9 months postoperatively, the patient reported pain in the right hip and inguinal region. Radiographs and CT scans showed migration of the screws, femoral neck pseudoarthrosis, and osteonecrosis of the femoral neck (Ficat-Arlet stage 2). Biologic surgery was recommended and is shown in the video.