

Miss A Nail Technique For Peri Implant Neck Of Femur Screw Fixation

Anas H¹, Hafiz SZ¹, Choo Tz¹, Shahid Nj¹, Manoharan K¹

¹Hospital Raja Permaisuri Bainun, Perak

INTRODUCTION:

Neck of femur (NOF) fractures in young adults are often due to high energy trauma. Treatment of femoral neck fractures are often performed with open or closed reduction with cannulated or non-cannulated screw fixation. With an Kuntscher nail in situ, it complicates the NOF fixation. Miss-A-Nail technique can be performed for femoral neck screw fixation with the Kuntscher nail in situ. In this case report, we present our experience using miss a nail technique in peri implant NOF fractures with Kuntscher nail in situ.

REPORT:

A 46 years old gentleman was involved in MVA. Examination showed tender left hip in which a pelvic radiograph done showing left NOF fracture with Kuntscher nail in situ¹. Miss a nail technique screw fixation done with cannulated screw 7.0 mm diameter. Additionally we use washer at the end of each 7.0mm cannulated screw to prevent the cannulated screw from penetrating the hip joint as the proximal femur bone quality may be suboptimal due to the load sharing devices (kuntscher nail) in situ. Good reduction and compression of the NOF fracture was achieved. He was allowed home with strict non-weight bearing ambulation. Subsequent follow up showed good outcome with fracture have united. Patient is able to weight bear without pain.



Figure 1: Trauma Xray left NOF fracture with Kuntscher nail in situ.



Figure 2: Immediate Postoperative xray and 5month follow up xray

CONCLUSION:

Bone growth or overgrowth, damage to the proximal threads of the nail, and broken nails or locking screws may complicate the removal of intramedullary nails². Miss a nail technique should be good option to avert complication regarding removal implant in fixation NOF with Kuntcher nail in situ.

REFERENCES:

1. Kow RY, Abdul-Aziz A, Low CL. Miss-A-Nail Technique for Neck of Femur Screw Fixation: It Is Easier Said Than Done. *Malays Orthop J.* 2020 Mar;14(1):96-97.
2. RM, DVV, ALG, PG, FML. A Technical Note for Extracting an Incarcerated Femoral Kuntscher Nail. *J Orthop Case Rep.* 2016 Jul-Aug;6(3)