

## REVISION SURGERY WITH CEMENT AUGMENTATION IN PROXIMAL FEMORAL NAIL FAILURE - A CASE REPORT

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**Introduction:** Hip fracture had always been reflected to osteoporotic-fracture related in elderly. In case of fixation for basocervical of femur fracture using proximal femoral nail in patient with osteoporosis, there is quite a number of incidence of failure. Thus, revision surgery with cement augmentation has become a method in salvaging the fixation. This case report is an example of case that had underwent revision surgery with cement augmentation in failure of proximal femoral nail.

**Discussion:** Madam A 81 years old malay lady who had alleged fall in sitting position presented with left hip pain. Plain radiograph shows left base of neck fracture with greater trochanteric involvement. Premorbidly patient has hypertension and dyslipidaemia with high cardiac risk for surgery. Patient underwent proximal femoral nail under spinal anesthesia. During follow up radiograph showed cut out of proximal femoral nail blade. Considering patient general condition and cardiac assessment patient was plan for revision surgery with minimal blood loss and short duration of surgery. Under spinal anesthesia via same proximal incision, proximal femoral nail blade was removed. Fracture reduction was check with image intensifier and proximal femoral nail blade was reinserted in correct position with slow setting cement prepared and mixed. Syringe with large hub opening and tip was prepared and then cement was inserted into the syringe immediately after mixing. Fracture site identified and it was use as entry to inject the cement via syringe. Post-operative radiograph showed acceptable reduction with some leakage of cement proximally. During follow up wound was well healed. The range of movement over left hip improved with pain resolving over time.

**Conclusion:** In conclusion, the definition and optimal treatment approach of basicervical fractures remain controversial. Revision surgery in elderly remains a challenge for surgeons. Good choice of implant and surgical technique is the key of success of the surgery.