

Radial Head Excision In Mason Type III Radial Head Fracture : A Case Report

Muhammad Adli AM; Rafidi S; Low WK; Rizal Z; Fahmi I
Department Of Orthopedic, Hospiatal Tuanku Ampuan Najihah, Negeri Sembilan

INTRODUCTION:

Treatment of comminuted radial head fracture is not always easy. These type of fracture may account from minor to complex ligamentous elbow injury that may result to elbow joint instability. Radial head represent the secondary stabilizer of the elbow joint for varus-valgus and postero-lateral stress. It also involved in axial transmission load through the elbow during flexion. Primary goal in treatment of radial head fracture is to restore elbow joint stability while preserving complex elbow joint bio-mechanic. In unrepairable cases, radial head excision or radial head arthroplasty is the treatment of choice. We report a case study of radial head excision in Mason Type III radial head fracture without significant ligamentous elbow joint injury.

CASE REPORT:

We present a 51 year old lady alleged fall from motorbike and landed her left elbow on the ground. Radiological finding of left elbow show comminuted radial head fracture with no humero-ulna joint dislocation. Patient initially planned for internal fixation of radial head. However, surgeon decided for excision of radial head following severe comminution of radial head. Intraoperatively, elbow joint stability was sufficient with satisfactions of range of motion. Patient was allowed for range of motion exercise post-operatively. Follow up after 6 weeks of surgery , patient regained good range of motion of left elbow. Flexion and extension are 0 to 105 degree while pronation and supination are full. Patient does not complaint any elbow and wrist joint pain.

DISCUSSIONS:

This case report will discuss about goal of treatment of comminuted radial head fracture and possible complication that can arise from excision of radial head.

CONCLUSION:

Treatment of comminuted radial head fracture (Mason III) are always debatable. However, main goal of treatment is to restore function and stability of the elbow joint. Excision of radial head in elderly people with no significant injury to elbow ligament are still can be done in order to avoid implant related complication.

REFERENCES:

1. Francesco C. et al. Radial Head Resection Versus Arthroplasty in Unrepairable Comminuted Fracture mason Type III and IV: A Systematic Review. Hindawi Biomed research International. Volume 2018;12 pages
2. Stefania V. et al .Resection Arthroplasty after failure of a Radial Head Prosthesis:A Case Report. Plastic Surgery and Hand Surgery.2016,VOL.3,NO.1;28-31