The Use of Lag Screw in Fracture Dislocation of The Proximal Interphalangeal Joint

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Introduction

Fracture dislocation of the proximal interphalangeal joint is common developed during severe exercise. Several treatment modalities are adjusted according to the type of injury. Until now closed reduction, extension block splint, K-wire fixation and miniscrew or dirclage wire fixation are commonly used. But we performed an internal fixation using lag screw.

Materials & Methods

A 24 year old man visited the our emergency center with posterior fracture dislocation of PIP joint of right index finger. He is a jazz guitarist. And he wanted a compete recovery of his finger function. We performed an internal fixation using lag-screw through the dorsal incision. Physiotherapy was started from on postoperative 3 days. On radiological finding the fracture fragment was well reduced and fixated. On long-term follow-up functional recovery was complete. No joint stiffness and arthritis were observed. And he took a second place on the international jazz guitar concours one year later after surgery.

Results

Discussion

There is not a definite treatment modality for the posterior fracture dislocation of the PIP joint. We can select an appropriate treatment modality according to the type of injury. But any method is not free from the complications such as joint stiffness, pain, arthritis, re-dislocation, and motion restriction. Recently the method using lag screw is not popular method for this situation. But I recommend a this modality in the aspects of a less joint stiffness, less pain, and early joint motion.