

## A Study On Outcome Of Scaphoid Fracture Following Fixation With Herbert Screw In Hospital Sultan Abdul Halim Kedah

<sup>2</sup>Hajera S, <sup>2</sup>Voon JM, <sup>2</sup>Teoh TJ, <sup>2</sup>Muhaimin NA, <sup>1</sup>Sharil AR, <sup>1</sup>Saifullah AH

Department of Orthopedics and Traumatology, Hospital Sultan Abdul Halim, Kedah Darul Aman, Malaysia

### INTRODUCTION:

Scaphoid fractures were commonly treated conservatively with immobilization using casts. The introduction of Herbert screw offer a alternative option with a better functional outcome and fewer complications.

### OBJECTIVE:

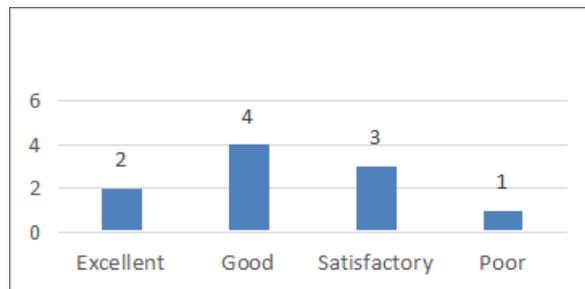
1. To assess clinical outcome and radiological union of scaphoid fractures after fixation with Herbert screw.
2. To evaluate the disability experienced by patients, monitor changes in symptoms and eventual return of function.

### METHOD:

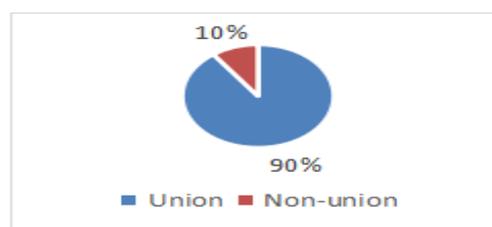
1. A retrospective study conducted based on the 10 patients with scaphoid fracture treated with Herbert screw fixation between 1<sup>st</sup> January 2015 until 31<sup>st</sup> December 2016.
2. These patients were reviewed base on the DASH (disability of arm, shoulder and hand) questionnaire, Mayo wrist score questionnaire and latest plain radiographs.

### RESULTS:

1. A total of 10 patients were studied with the mean age of 27.7. The sex distribution comprised of 70% males and 30% females.
2. 60% of patients were able to achieve a good or excellent Mayo score, 30% patients achieved satisfactory score with only 10% patients fall in the poor category.
3. The mean DASH score is 14.8 with the lowest score of 1.7 and the highest score of 36.7.
4. 90% of total patients achieved union in their latest plain radiograph with 10% of patient having non-union.



**Figure 1: Number of patients with the interpretation of Mayo score**



**Figure 2: Percentage of patient achieving union and non-union.**

### DISCUSSIONS:

1. Patients with lower Mayo score and higher DASH score are associated with elderly aged patients with concomitant injuries over the ipsilateral limb.
2. 9 out of 10 patients are able to return to normal work post operatively with minimal pain and good range of motion.

### CONCLUSION:

Herbert screw is a safe, effective fixation treatment for scaphoid fracture. However, the study is limited with number of sample size patients and lack of long term data follow up which can be a key in reassessing the final outcome of the surgery.

### REFERENCES:

1. Parajuli NP, Shrestha D, Dhoju D, Sharma V, Kathmandu Univ Med J 2011  
Scaphoid fracture: functional outcome following fixation with Herbert Screw