

# Perilunate Fracture Fixation: A 6-Year Retrospective Review Of Fracture Fixation Outcomes

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## INTRODUCTION:

Scapholunate fractures are uncommon complex fracture of the carpal bones. We aim to analyze the contributory factors that affect clinical outcomes, time to union and total cost of surgery (Reoperation and days of admission)

## MATERIALS & METHODS:

A retrospective study of 26 scaphoid fractures was done between the years 2011 to 2016. These surgeries were done by multiple resident surgeons under the guidance of the resident hand surgeon at tertiary center in Klang Valley, with the median age being 26.5 years. Most surgeries were done within 2 weeks of trauma. Among the patients, 14 patients required fixation with a headless screw while 6 patients required k-wire insertion, while 3 needed a combination of both. There were 3 patients who defaulted follow up. The data was analyzed with SPSS Version 20 with p-value <0.05 considered significant and R value of more than 0.8 considered as a good correlation.

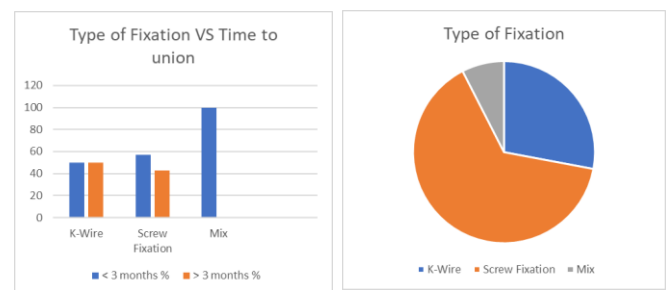
## RESULTS:

Our results proved 14 patients achieved union within 3 months, 9 patients had delayed union. It was also interesting to note that patients who had a combination of K-Wire and screw fixation done, took a longer period to achieve full grip strength, this could be due to factors such as a more complex injury or poor compliance which are not addressed in this study.

There were also no statistically significant between time of surgery from injury to the rate of infection, grip strength or union rate. Comparison of type of surgery to time of grip and time to union also showed no statistically significant value.

## DISCUSSIONS:

Our study shows equivocal clinical outcomes despite delayed time to surgery and type of fixation.



## CONCLUSION:

Scapholunate fractures clinical outcomes and total cost of surgery is not affected by type of fixation and delay in surgery of more than 2 weeks.

## REFERENCES:

1. Kumar et al., Scaphoid Fractures treated with Kirshner (K) Wires or Hebert screw fixation has no difference in fracture healing period. Journal of Medical Science and Clinical Research. Volume 4 Issue 09 August 2016.