

## Comparison of internal fixation with hollow two-way compression screw and double Kirschner pin for the treatment of Jones fracture

Rodger John

**Category:** Midfoot/Forefoot

**Keywords:** Metatarsal fracture Cardiac bidirectional compression screw

**Introduction/Purpose:** To compare the clinical effect of hollow bidirectional compression screw and double Kirschner needle in the treatment of Jones fracture.

**Methods:** 32 cases of Jones fractures treated follow-up were analyzed retrospectively, including 20 cases of application of hollow biaxial compression intramedullary screw fixation for 12 cases, double Kirschner wire internal fixation.

**Results:** all 32 cases were followed up for 6~18 months, with an average of 10 months. For two-way hollow compression screw nail 20 cases, including 19 cases healed, 1 cases of delayed healing, the healing rate was 95%, the average healing time of 11.2 weeks (9 - 13). 12 cases of internal fixation with double Kirschner needle were performed, of which 8 cases were bone healing, 3 cases were delayed union, 1 cases were not healed, the healing rate was 75%, the average healing time was 14.7 (12~16) weeks. The average healing time after two groups of internal fixation was statistically analyzed, and the difference was statistically significant.

**Conclusion:** the hollow two-way compression screw is more reliable and reliable in the treatment of Jones fracture than the double Kirschner wire. The average healing time is shorter and the healing rate is higher. The hollow two-way compression screw is an effective method for the treatment of Jones fracture.

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