



Comparison of Re-Motion and Motec Wrist Arthroplasty: Our Experience

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Introduction

The purpose of this study is to compare our outcomes between RE-MOTION and MOTEC wrist arthroplasty within personal experience.

Methods

From 2005 to 2013 we have implanted RE-MOTION (Figure 1). Afterwards we have used MOTEC (Figure 2) for the following reasons: a-less invasivity with MOTEC; b-easier to implant it; c-in

case MOTEC failure the chance for arthrodesis without to remove it ,because a connector makes stiff the implant; d-more frequent radiological loosening in RE-MOTION. 20 out 28 patients came to follow-up 4-12 years postoperatively (mean 7,5years). We treated 10 p. for AR,5 for osteoarthritis,4 snac-slac and 1 in recent wrist fracture [1]. Complications occurred in five patients: 1 deep infection (removed), 4 aseptic painful loosening (2 treated with arthrodesis and two replaced with MOTEC).



Figure 1: Rx of Re-motion implant on arthrotic wrist.



Figure 2: Case of MOTEC implant on wrist: Rx pre and postoperative; and clinical outcome at 8 months follow-up.

Results Re-Motion

DASH from 82 to 55; ROM: plus 10 than preoperatively; VAS: from 9 to 3,5; GRIP STRENGTH postoperatively 20 kg (preop. 14). Patients' satisfaction: =6,5 (scale 1 to 10).

Outcomes Motec

15 implants. Complications occurred in two wrists: one dislocation, the other painful (ended in arthrodesis). At the last examination 3,2 years later: DASH 8 compared. 55preo. ROM more 15°(mean), VAS 2-preop. 7,5. GRIP STRENGTH 24 (preo.15 kg.)

Patients Satisfaction

7 (scale 1-10).

Conclusion

The findings of the current observations suggested that for motion no significant difference was registered in both groups, and

the most important factor for motion is preoperative ROM [2]. The aseptic painful loosening at four years slightly more in RE-MOTION (maybe because more material(metal-polyethylene) of the device!). No important difference in patients' satisfaction. It's sure that MOTEC implantation for surgeons is easier!

References

1. Herzberg G, Boeckstyns M, Sorensen AL (2012) Remotion total wrist arthroplasty: preliminary results of a prospective international multicenter study of 215 cases. JWS 1: 17-22.
2. Reigstad A, Reigstad O, Grimsgaard C (2011) New concept for total wrist replacement. J Plast Hand Surg 45(3): 148-156.



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