

MOTEC WRIST ARTHROPLASTY. 5 YEARS OF PROMISING RESULTS

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Background: The Motec cementless modular metal-on-metal ball-and-socket wrist arthroplasty is an implant with promising intermediate results. An alternative to primary wrist fusion, total wrist arthroplasty is an option for active patients, who wish to retain their wrist function. It is indicated in cases of degenerative osteoarthritis, post-traumatic arthritis and rheumatoid (inflammatory) arthritis.

Methods: Retrospective case note review of patient demographics, pre and post-operative Disabilities of the Arm Shoulder and Hand (DASH), MAYO scores, range of movement and grip strength, complications and follow-up duration. All complications in follow up were recorded across the 5 year period.

Results: 24 implants on 22 patients over 5 years, mean age 58; 8 females and 14 male. Indications were SNAC, SLAC, inflammatory and generalized osteoarthritis. The patients showed large improvements of MAYO and DASH scores post-operatively, alongside increased in range of movement. There was just one case of implant loosening- the radial screw after a wound infection, which was revised with a longer screw. Two implants were converted to Motec fusion due to pain. One implant was dislocated and relocated. Only 6 patients were unable to return to work.

Conclusion: Similar to results of Reigstad et al, this series shows the Motec implant to be a good motion preserving alternative to total wrist fusion.