Case report. Reconversion of a CMC arthrodesis into a prostheses

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Degenerative thumb carpometacarpal (CMC) osteoarthritis is one of the most prevalent pathologies in the hand but it affects rarely to young and active population. The most popular options for the treatment of this condition in such patients is the trapezoid-metacarpal arthrodesis. In spite of this, the carpometacarpal prostheses are becoming more relevant due to the reported favorable short-term results.

The objective of this study was to assess the clinical and radiological results in a case report of a young and active woman who was initially treated with an arthrodesis that was not tolerated due to the need for more mobility of her thumb and was reconverted to a prostheses.

BACKGROUND

OBJECTIVES

The clinical result was satisfactory for the patient. The radial abduction was up to 45º and the palmar abduction was 45º. She does not report any pain during her work activity. The grip strength is 20 kg and pinch of 4 kg.

The radiological results were good as well, with no signs of loosened components or prostheses luxation.

CONCLUSIONS

The reconversion of a 1st CMC arthrodesis into a prosthesis arthroplasty has proved to be an option in selected cases of manual workers in which the restriction of mobility of the 1st CMC joint affects their work activity. The clinical and radiological results of our case report have been satisfactory.