

The Utility of Postoperative Radiographs following Carpometacarpal Arthroplasty

Karly Lorbeer, MD; Anthony Paterno, BS; J. Megan Patterson, MD; Reid Draeger, MD

University of North Carolina Department of Orthopaedic Surgery



UNC
ORTHOPAEDICS

INTRODUCTION

- Routine postoperative radiographs are often obtained following CMC arthroplasty
- Radiographic parameters have not been correlated with patient reported outcomes or functional outcomes

OBJECTIVE

- To evaluate the utility of postoperative radiographs following CMC arthroplasty

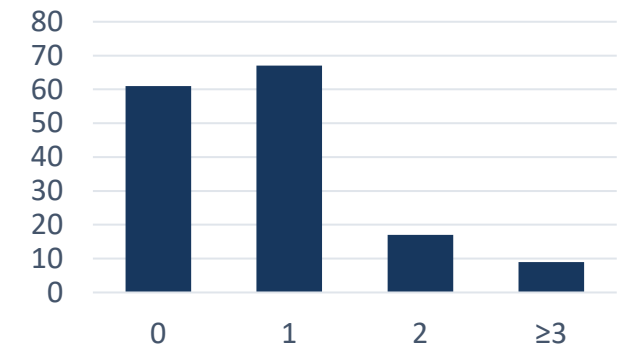
METHODS

- Retrospective observational study
- Primary CMC arthroplasty 2014-2019
- Exclusion: concurrent MCP capsulodesis, MCP fusion and/or proximal trapezoid resection
- Primary outcome of need for repeat operative intervention within 6 months of surgery

RESULTS

- 155 patients
- Patients received an average of 0.87 series of radiographs following surgery
- Figure 1 demonstrates number of patients who received 0, 1, 2, and ≥ 3 series of radiographs following surgery
- No patients underwent revision CMC arthroplasty
- 4/155 (3%) returned to the OR. Two had infections necessitating I&D. Two developed MCP arthritis and underwent fusion.
- There were no instances of radiographic findings leading to repeat operative intervention

FIGURE 1



Number of patients who received 0, 1, 2, and ≥ 3 series of radiographs following surgery

CONCLUSIONS

- Routine postoperative radiographs following CMC arthroplasty did not correlate with secondary surgical intervention