Total hip arthroplasty for the treatment of severe hip osteoarthritis due to fluorosis

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Abstract

BACKGROUND: Now, total hip arthroplasty (THA) is one of the effective methods for the treatment of severe hip osteoarthritis due to fluorosis.

OBJECTIVE: To investigate the strategies and efficacy of THA for the treatment of severe hip osteoarthritis due to fluorosis.

METHODS: A total of five cases with severe hip osteoarthritis due to fluorosis were treated with THA using biological prosthesis.

RESULTS AND CONCLUSION: All incisions were healed in one stage. Position of the prosthesis was good confirmed by X-rays observation at 1 week after operation. All the cases were followed-up for averagely 13.8 months. Loosening and sinking of the prosthesis were not found during the follow-up. The average Harris scores were 83.6 and 87.8 points at postoperative 3 and 6 months respectively, which was improved as compared with preoperative score (38.4 points). Heterotopic ossification occurred in two cases, one was Brooker degree Ⅰ and another was degree Ⅱ. THA is an effective method to treat severe hip osteoarthritis due to fluorosis, which can significantly improve joint function and has few complications. Heterotopic ossification should be prevented after the operation.


Tables and figures

Figure 1 Imaging of a woman patient with severe hip osteoarthritis due to fluorosis before and after replacement

a: Preoperative imaging of hip joint  b: Preoperative imaging of chest

c: Preoperative imaging of left knee  d: Imaging of hip joint at postoperative 3 mon
REFERENCES