

## TOTAL HIP ARTHROPLASTY USING FITMORE® STEM IN TREATMENT OF HIP OSTEOARTHRITIS – A 3-YEAR FOLLOW-UP

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Hip osteoarthritis is a chronic degenerative disease which usually presents after the age of 50. In advanced stages of the disease, the method of choice in treating hip osteoarthritis is total hip arthroplasty. Fitmore® hip stem belongs to short-stems which preserve bone mass in the region of the greater trochanter and the distal part of the femur. In this paper we present the results of total hip arthroplasty using Fitmore® stem in hip osteoarthritis treatment.

We report a series of 10 patients with osteoarthritis of hip that were treated by total cementless hip endoprosthesis with Fitmore® Hip Stem at the Clinic of Orthopedics and Traumatology, Clinical Center Niš. The average age of patients was 56 (48-65) years. There were 5 women and 5 men. The patients were followed for 3 years postoperatively and the functional outcome was assessed according to Harris Hip Score. Radiographic analysis was performed on the radiograph of the hip joint in anterior-posterior projection.

In 7 patients we had excellent (over 90 points) and in 3 patients we had good (over 80 points) functional outcome according to the Harris Hip Score. After 3 years, all patients' radiological findings showed good integration of the Fitmore® stem. Four patients had cortical hypertrophy of the femur. In patients with hypertrophy of cortex, there were no clinical manifestations.

Implantation of total cementless hip joint endoprosthesis with Fitmore® stem in the treatment of hip osteoarthritis is a good choice when treating younger patients with good bone quality.

*Acta Medica Medianae 2020;59(4):76-81.*

**Key words:** hip osteoarthritis, total hip arthroplasty, Fitmore® Hip Stem