

## 19 years outcome after cementless total hip arthroplasty with spongy metal structured implants in patients younger than 65 years

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### BACKGROUND

Cementless fixation of total hip arthroplasties (THAs) is often favored in young, high-demanding patients due to the conservation of valuable bone-stock and easier revision if loosening has occurred. Long-term outcome data of the spongy metal structured implant used in the present study in patients younger than 65 years are still lacking.

### METHODS

We conducted a retrospective chart review and functional investigation (Merle d'Aubigné score, SF-12) of patients younger than 65 years at implantation treated with a spongy metal structured THA (n = 79) from one orthopedic university center from 1985 to 1989.

### RESULTS

At a 19-year mean follow-up (range: 15.3 - 21.3 years), the overall stem survival rate was 93.7 %, and the overall cup survival rate was 82.3 %. Revision surgeries of the stem were performed in all cases for aseptic loosening at an average of  $15.3 \pm 3.5$  years after implantation. Acetabular components were revised for aseptic loosening and recurrent dislocation after inlay revision on an average of  $11.8 \pm 4.7$  years after implantation. No other device related complications occurred within the 19-year follow-up period. No correlation was found between time of revision and gender or age. Clinical outcome scores (Merle d'Aubigné score, SF-12) revealed excellent to good results of the implanted THAs in 87 % of patients.

### CONCLUSIONS

We conclude that spongy metal structured cementless THAs implanted in young patients have an excellent survival and provide trustworthy clinical results at 19 years of follow-up.

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