Evidence in focus

POLARSTEM\textsuperscript{\textcircled{O}} with dual mobility cup (POLARCUP\textsuperscript{\textcircled{O}}) demonstrates excellent survivorship at 10 years in patients undergoing total hip replacement (THR)

Plus points

99.1% POLARSTEM survivorship at 10 years
95.9% POLARCUP survivorship at 10 years
Satisfactory total WOMAC\textsuperscript{\textdagger} score at 10 years

Overview

- A multicentre retrospective evaluation of survivorship, safety and effectiveness of uncemented POLARSTEM and POLARCUP in patients undergoing primary THR between 2002 and 2005

- 502 THRs performed in 502 patients (mean age at surgery, 63.8 years; range, 29–82 years)
- 244 patients were available for 10-year follow up (mean, 11.9 years)

Results

- Cumulative 10-year survivorship was excellent with 99.1% stem survivorship and 95.9% cup survivorship
  - 4 stem revisions; fracture of the femur (4 patients)
  - 17 cup revisions (15 patients); aseptic loosening (14 patients), secondary to fracture of the femur (1 patient)
- Radiographic analysis: stem subsidence (n=0), bone hypertrophy (n=0), bone atrophy (n=1), osteolysis around the stem (n=3)
- Dislocation: n=0
- At 10-year follow up, patients achieved satisfactory WOMAC scores (Figure)

Conclusions

POLARSTEM with POLARCUP demonstrates excellent survivorship and satisfactory functional outcomes at 10 years in THR patients over a wide range of ages.

Citation

Available at: J Orthop Surg Res

\textsuperscript{\textdagger}WOMAC, Western Ontario and McMaster Universities Osteoarthritis Index

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