Polar-studie 06.06.2024

Project-title and REK nr:

2016/261 En nyere hofteprotese; sitter den like godt fast som gullstandarden? (Polarstudien) Is the fixation of a more recent hip prostheses as stable as the gold standard.

Project-period: 2017-2032

Introduction:

A randomised controlled trial comparing a recently introduced uncemented femoral stem with an established uncemented stem for total hip arthroplasty (THA). 60 patients will be randomised into one of the two groups

- 1. Polarstem uncemented femoral stem (Smith & Nephew)
- 2. Corail uncemented femoral stem (De Puy)

Material and method:

All patients will receive a 32mm CoCr femoral head and an R3 acetabular cup with a 10 Mrad XLPE liner (Smith & Nephew).

Radiostereometric analysis (RSA) will be used to measure stem migration. Dual-energy x-ray absorptiometry (DXA) measurements will be used to measure bone mineral density. Furthermore the outcome will be systematically measured by clinical scoring and plain x-rays.

The aim of the study are:

to compare the pattern and magnitude of stem migration, and femoral periprosthetic bone remodelling.

Results:

Status 22.12.23: All patients included.

Time horizon:

Awaiting two year results from last patient (ultimo 2024) before preparing manuscripts. 10 year results will be available in late 2032, and after that the study ends.

Contact information:

If you have any questions, please contact the project manager geir.hallan@helse-bergen.no.