

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:

We are preparing manuscripts based on 2-year RSA results. 10 year results (clinical outcome and DXA) 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.