

# Summary of research proposal LROI



**Title:**

Nationwide review of the uncemented Symax hip stem: survival and reasons for revision

**Authors:**

R.H.M. ten Broeke, D. Kruijntjens, L. Jutten, C. Arts

**Abstract:**

The Symax uncemented hip stem was introduced as an optimization of the Omnifit HA coated uncemented hip stem. This nationwide study is the final part of a stepwise clinical introduction of the Symax hip stem according to Malchau et al., illustrating the 'phased innovation' of this implant. In this large cohort study we focus on revision rate and survival of this hip stem more than 10 years after the introduction of this stem design. As part of the clinical introduction also a prospective radiostereometric analysis (RSA) study (n=50), an international clinical and radiographic study (n=80), as well as a large prospective clinical multicenter cohort study (n=300) are ongoing.

The primary aim is to evaluate the cumulative incidence of revision and reasons for revision of the Symax hip stem since the introduction of the LROI. The NICE-guideline determined that new prostheses achieve the 'entry benchmark' for new prostheses when they have a minimum of 3 years revision rate experience and if the performance is consistent with the benchmark of 10% revision rate at 10 years. So 1% revision rate for every year of completed follow-up. The secondary aim of this study is to assess what patient characteristics are associated with revision of the Symax hip stem.

**Approval date:**

October 2017