

## Summary of research proposal LROI



### Title:

A comparison of short-stemmed uncemented total hip arthroplasties between the Dutch Arthroplasty Register (LROI) and the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR) in the period 2009-2021

**Authors:** BW Schreurs, MHW van Veghel, LN van Steenberg, G Hannink, R de Steiger

### Abstract:

Short-stemmed total hip arthroplasties (THAs) claim to preserve proximal bone stock for future revisions. Short stems have shown similar revision rates compared with conventional stems at short and mid-term follow-up. We are currently comparing 10-year revision rates of uncemented short-stemmed THAs with conventional stemmed-THAs, using data of the Dutch Arthroplasty Register (LROI).

Short-stemmed THAs represent approximately 2% (n=4,462) of all THAs in the Netherlands. Combining data from national arthroplasty registers is needed to increase numbers in order to create the possibility of detecting inferior implants as early as possible. Furthermore, comparing national arthroplasty registers is important to improve our understanding of national differences and similarities.

In this observational population-based registry study, we will compare short-stemmed uncemented THAs performed in the Netherlands with those performed in Australia. We will include all primary THAs (non-MoM) registered in the LROI and in the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR) in the period 2009-2021.

We will examine differences in incidence, patient, procedure and prosthesis characteristics as well as revision rates of uncemented short-stemmed total hip arthroplasties performed in the Netherlands and in Australia

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