

Summary of research proposal LROI



Title:

Revision and re-revision of short-stemmed total hip arthroplasties based on combined registry data from Sweden, Australia and the Netherlands

Authors: BW Schreurs, LN van Steenberg, J Karrholm, M Mohaddes, MHW van Veghel, K Rilby, G Hannink, PL Lewis

Abstract:

Short stems are rising in popularity in both Europe as well as in Australia. Often they are marketed toward a younger population due to the theoretical advantage of being easier to revise. This assumption has still not been scientifically proven even though short uncemented stems have been on the market for more than 30 years. The aims of this study are to examine the revision and re-revisions rates of short stemmed total hip arthroplasties (THA) and whether short stems are revised using again short stems, standard length stems or even more extensive revision stems. Data will be collected from the LROI, the Swedish Arthroplasty Register (SAR) and the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR). All patients with a primary short-stemmed THA with any subsequent revision and re-revision for any reason will be selected. Analysis of which implant used for the first revision surgery will be examined and revision rates for the short stems will be calculated. A matched cohort consisting of patients with uncemented standard length stems will be used for comparison. The hypotheses are that primary short-stemmed THAs have similar revision and re-revision rates as standard length stems, and are revised using the same implants.

Approval date: May 2023