

## Summary of research proposal LROI



### **Title:**

Trends in surgical approaches for total hip arthroplasty: the rise of the anterior approach in the Netherlands.

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### **Abstract:**

This study aims to describe the trend to shift in surgical approach for total hip arthroplasty (THA) in the Netherlands. The Dutch Arthroplasty register recorded an increase in the use of the anterior and posterolateral approach and a decrease of the anterolateral and direct lateral approach. This increase is partly driven by a growing patient preference for the anterior approach. Despite this preference, scientific evidence for a better outcome of the anterior approach on the long term is lacking(1). Furthermore, the anterior approach is technically demanding with a reported learning curve of 50-150 patients(2). Based on LROI data there are also concerns regarding higher aseptic revision of the stem at midterm follow-up.(3)

Our main research goal is to identify a trend of the growing use of the anterior approach. We aim to identify the number of hospitals that implemented a new surgical approach for THA, to what extent, and in which time frame. We will assess the proportion of cases performed with the anterior approach annually after the implementation to describe a shift in surgical approach in the Netherlands.

Our secondary research aim is to describe three subjects after implementing a new approach : implant survival in the first 150 patients after the implementation, we will also describe patient characteristics to determine whether a selected group of patients is operated after an implementation and we will explore which type of implant and fixation is used after an implementation.

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