

# Summary of research proposal LROI



## **Title:**

The correlation between patients' age and size of the cementless femoral component in hip arthroplasty in The Netherlands

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## **Abstract:**

Anatomical studies have demonstrated age-related changes in the morphology of the proximal femur. The proximal femoral canal widens and develops a more so-called stovepipe shape during the aging process. This study aims to investigate whether these changes are reflected by the size of a frequently used cementless stem in hip arthroplasty. We hypothesize that in elderly patients larger stem sizes are being used compared to younger patients. This study will also investigate, and correct for, other patient characteristics which might influence stem size, such as patients' height, weight, gender; and the surgical approach.

## **Approval date:**

April 2018