

# Summary of research proposal LROI



**Title:**

Future demand for total hip replacement in the Netherlands

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**Abstract:**

In this study we predict the estimated number of total hip replacement (THR) operations needed in 2030, based on incidence of hip replacement and evolution of the Dutch population between 1986 until 2015. We obtain data from the Patient Discharge Registry (LMR, until 2005), the Dutch Arthroplasty Registry (LROI, 2007-2016) and the Dutch Census Bureau (CBS). By projecting current incidence of THR per age group on future population predictions we estimate the number of operations expected to be performed in 2030. Further, by using a regression framework that assumes a upper limit of total hip replacement incidence, we will make another, less conservative prediction of the number of THR needed taking into account the still growing incidence of the procedure.

**Approval date (amendment):** October 2019

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