

Summary of research proposal LROI



Title:

A comprehensive evaluation of lateral unicompartmental knee arthroplasty short to mid-term survivorship, and the effect of patient and implant characteristics

Authors:

P.A. Nolte, J.A. Burger, L.J. Kleeblad, W.G. Horstmann, R.C.I. van Geenen, I.N. Sierevelt

Abstract:

Several large cohort studies have reported good clinical outcomes after unicompartmental knee arthroplasty (UKA) with survivorship ranging from 93%-98% at midterm follow-up. However, survival rates shown by registries are lower. This discrepancy may be due to several factors, one of which is that laterality is not specified in registries, and therefore, outcomes of medial and lateral UKA are combined. Furthermore, patient indications for UKA were expanded over the last decade, mostly based on medial UKA data. Lateral UKA is less frequently performed, as anatomy, kinematics, osteoarthritis rate are different compared to the medial compartment, and it is considered to be more technically demanding. The goal of this study was to compare survival of lateral and medial UKA using registry data, which creates the ability to assess survivorship of a large cohort of lateral UKAs. Therefore, the aim is to comprehensively evaluate survival of lateral UKA with high quality registry data and compare to medial UKA. In addition, the influence of patient and implant characteristics on survival will be assessed to optimize patient and implant selection for lateral UKA. Finally, the modes of failure and type of revision will be evaluated in both Lateral and medial UKA.

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