

Summary of research proposal LROI



Title:

A comparison of early patient-reported outcomes and survivorship after cementless and cemented medial unicompartmental knee arthroplasty. Results of the Dutch Arthroplasty Register.

Authors: GMMJ Kerkhofs, T Bayoumi, JA Burger, JPJ van der List, IN Sierevelt, HA Zuiderbaan, AD Pearle

Abstract:

Unicompartmental knee arthroplasty (UKA) is an effective procedure for treatment of isolated medial osteoarthritis. Traditionally, UKA components have been fixated with the use of cement. Nevertheless, the ideal fixation mode for UKA is a subject of debate. Although cement may provide an initial reliable fixation, the main reason for revision after cemented UKA is failure of component fixation. As a result, there has recently been an increased interest in cementless UKA systems. Cementless UKA systems rely on biological fixation through osseointegration which is theorized to provide a more durable fixation. Several recent studies have demonstrated that mid- to long-term outcomes of cementless systems compare favorably to cemented fixation. However, limited evidence is available on differences in short-term outcomes following both fixation methods and studies suggest that functional outcomes and pain scores in the first postoperative year are worse after cementless fixation. The primary aim of this study is therefore to compare patient-reported outcomes in the first postoperative year after cementless and cemented medial UKA. The secondary aim is to compare early-term survivorship between these groups.

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