

**Abstract**

# PATIENT SATISFACTION, FUNCTIONAL OUTCOMES AND SURVIVORSHIP IN PATIENTS WITH A CUSTOMIZED POSTERIOR-STABILIZED TOTAL KNEE ARTHROPLASTY

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## Background

In this study, we assessed implant survivorship, patient satisfaction, and patient-reported functional outcomes at two years for patients implanted with a customized, posterior stabilized knee replacement system.

## Methods

Ninety-three patients (100 knees) with the customized PS TKR were enrolled at two centers. Patients' length of hospitalization and preoperative pain intensity were assessed. At a single time point follow-up, we assessed patient reported outcomes utilizing the KOOS Jr., satisfaction rates, implant survivorship, patients' perception of their knee and their overall preference between the two knees, if they had their contralateral knee replaced with an off-the-shelf (OTS) implant.

## Results

At an average of 1.9-years implant survivorship was found to be 100%. From pre-op until time of follow-up, we observed an average decrease of 5.4 on the numeric pain rating scale. Satisfaction rate was found to be high with 90% of patients being satisfied or very satisfied and 88% of patients reporting a "natural" perception of their knee some or all the time. Patients with bilateral implants mostly (12/15) stated that they preferred their customized implant over the standard TKR. The evaluation of KOOS Jr. showed an average score of 90 at the time of the follow up.

## Conclusion

Based on our results, we believe that the customized PS implant provides patients with excellent outcomes post-surgery. Moreover, a subset of patients with an OTS implant in one

knee and a customized PS implant in the other, we observed a trend in patients preferring the customized PS device over their OTS counterparts.

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### We recommend

Cementless total knee replacement fixation

L. M. Kwong, *The Bone & Joint Journal*, 2014

Patient preferences in knee prostheses

J. W. Pritchett, *The Bone & Joint Journal*, 2004

Predicting dissatisfaction following total knee replacement


C. E. H. Scott, *The Bone & Joint Journal*, 2010

Do we need a gender-specific total knee replacement?

M. G. Thomsen, *The Bone & Joint Journal*, 2012

I can't get no satisfaction after my total knee replacement

M. J. Dunbar, *The Bone & Joint Journal*, 2013

Pain Outcomes in Knee Osteoarthritis: Total Knee Replacement vs Nonsurgical Interventions 


Gary Rothbard et al., *Rheumatology Advisor*, 2018

Does Acupuncture Decrease Pain After Joint Replacement Surgery? 


Brandon May, *Rheumatology Advisor*, 2018

Dynamic Intraligamentary Stabilisation for Torn ACL 

Stefan Eggli et al., *Medscape*

Guidelines recommend NSAIDs first line for primary dysmenorrhea. Naproxen sodium provides superior pain relief to APAP that lasts up to 12 hours 

Aleve

Pain Profiling May Predict Response to NSAID Plus Paracetamol in Knee Osteoarthritis 

Hannah Dellabella, *Rheumatology Advisor*, 2018



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