

Mid-term survivorship and patient satisfaction of robotic-arm assisted medial unicompartmental knee arthroplasty: a multicenter study

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Goal of study:

To determine midterm survivorship and satisfaction of robotic-arm assisted medial UKA

Materials and methods:

- Prospective, multicenter study
- Data were collected for 384 consecutive patients (432 knees) who underwent robotic-arm assisted medial UKA surgery using a fixed-bearing onlay tibial component (Restoris MCK)
- Mean follow-up of 5.7 years
- Kaplan-Meier method was used to determine survivorship

Results:

- 97% survivorship at minimum 5-year follow-up (**Fig. 1**)
- 91% of patients reported either very satisfied or satisfied with their knee function at minimum 5-year follow-up (**Fig. 2**)

Conclusion:

- In this multicenter study, robotic-arm assisted UKA showed high survivorship and good to excellent satisfaction rates at midterm follow-up
- Improved survivorship compared to current literature (**Fig. 1**) possibly due to improved accuracy and precision to plan in alignment and component positioning and soft tissue balancing, when using robotic-arm assisted surgery compared to conventional techniques
- Patient contact planned at 10-year follow-up

References:

1. Kleebblad LJ, Borus T, Coon T, Douchis J, Nguyen J, Pearle A. Midterm Survivorship and Patient Satisfaction of Robotic-Arm Assisted Medial Unicompartmental Knee Arthroplasty: A Multicenter Study. *The Journal of Arthroplasty*. 2018: 1-8.
2. Pearle AD van der List JP, Lee L, Coon TM, Borus TA, Roche MW. Survivorship and patient satisfaction of robotic-assisted medial unicompartmental knee arthroplasty at a minimum two-year follow-up. *Knee*. 2017;24(2):419-428.

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