

NAVIO[®] robotic-assisted unicompartmental knee arthroplasty (UKA) demonstrates 99.2% survivorship at two years

Survivorship at two years was higher than that reported in several national joint registries for conventional UKA



Study overview

- Retrospective study evaluating revision rate following NAVIO robotic-assisted UKA, at five US sites
- 128 patients, representing surgeon adopters', initial cases (mean age, 64.7 years; females, 54; males, 74)
- Post-operative follow-up (mean, 2.3 years) was carried out to determine survivorship and number of adverse events



Key results

- Survivorship at two years, 99.2%
 - One revision due to hamstring irritation and ischial tuberosity bursitis
 - Survivorship was higher than that reported in several registries for conventional UKAs
 - Australian Orthopaedic Association National Joint Registry, 95.7%¹
 - New Zealand Joint Registry, 96.3%²
 - Swedish Joint Registry, 96%³
 - Survivorship was statistically non-inferior to that reported in the Australian registry
- Adverse events
 - Four patients (3.1%) reported adverse events that were possibly or definitely related to NAVIO

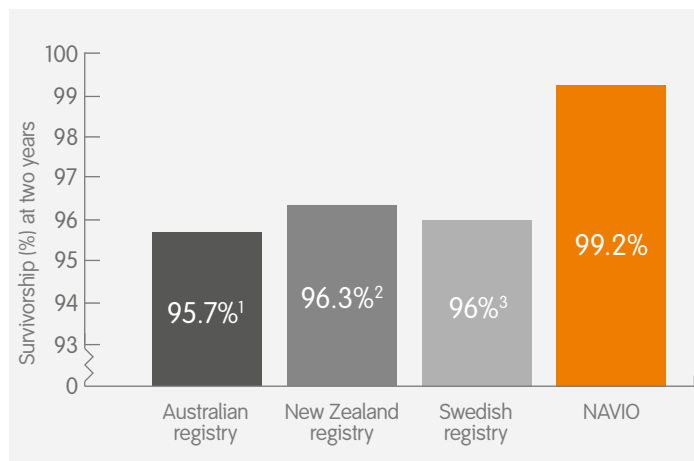


Figure. NAVIO survivorship data compared to annual registry data reporting 2-year conventional UKA survivorship



Conclusion

This is the first study to evaluate the NAVIO UKA revision rate. NAVIO UKA results in 99.2% implant survivorship, which is higher than that reported for conventional UKA in several annual registries.



Study citation

*Battenberg AK, Netravali NA, Lonner JH. Early survivorship of robotic-assisted unicompartmental knee arthroplasty. Poster presented at: Southern Orthopaedic Association 35th Annual Meeting; July 11-14 2018; Florida, USA.

References

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2. The New Zealand Joint Registry. Fourteen year report January 1999 to December 2012. Available at: nzoa.org.nz/system/files/NJR_14_Year_Report.pdf.
3. Swedish Knee Arthroplasty Register. Annual Report 2013. Available at: myknee.se/pdf/SKAR2013_Eng.pdf. 2013.