



Lower workload reported by OR staff for revision TKA with CORI[®] Surgical System versus conventional methods¹

Porteous A, Murray J, Ettinger M, et al. Reduced workload demand with handheld robotic assisted revision knee arthroplasty: A multi-centre NASA Task Load Index analysis. *J Exp Orthop*. Published online April 30, 2026. doi:10.1002/jeo2.70737.¹

Available at: [Journal of Experimental Orthopaedics](#)  



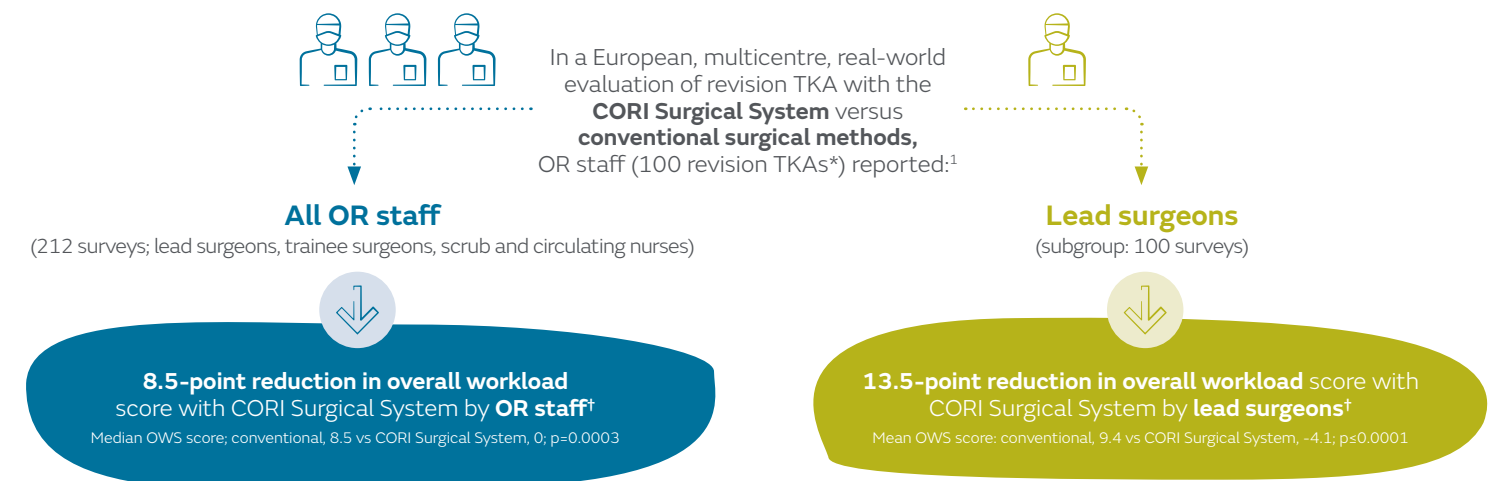
Workload of a revision TKA can be **more than 2.5 times** that of a primary procedure²




CORI Surgical System is a handheld robotics platform and the **first to be indicated for use in revision TKA** in the US and Europe³

To learn more about **CORI Surgical System clinical evidence**, scan the QR code:








+10
(Highest demand)



-10
(Lowest demand)

Significantly reduced NASA TLX domains:^{1‡}

-  Mental demand
-  Physical demand
-  Effort

All OR staff

5.0 vs **3.0**
p=0.0065

4.5 vs **1.5**
p<0.0001

5.0 vs **4.0**
p=0.0214

Lead surgeons

5.0 vs **2.0**
p=0.002

6.0 vs **0.0**
p<0.0001

5.0 vs **3.0**
p=0.0028

Conclusion¹

When compared to conventional methods, revision TKA with the CORI Surgical System:

- Resulted in a reduction in overall workload
- Was reported by OR staff as less physically and mentally demanding, and required less effort
- Did not impact perceived procedural performance, frustration or operating pace

Methodology:¹ OR staff anonymously completed a survey including the NASA Task Load Index (TLX) to assess self-reported workload scores after each revision TKA procedure (n=100). NASA TLX consists of six domains assessed on a 20-point scale (mental demand, physical demand, temporal demand, effort, frustration and performance). Selection of CORI System or conventional surgical methods was based on surgeon preference.

*39 conventional cases and 61 robotic-assisted cases. † Overall workload score is a weighted average of the six NASA TLX domains scaled from -50 (worst) to +50 (best). It is calculated as the average of the sum of the domains (performance domain is reversed to allow incorporation). ‡ NASA TLX domain scores for conventional vs CORI Surgical System (values in bold) procedures (median). No significant differences between revision TKA with the CORI Surgical System and conventional methods for temporal demand, frustration or performance for any OR staff¹

Abbreviations: NASA TLX = NASA Task Load Index; OR = operating room; OWS = overall workload score; TKA = total knee arthroplasty.
¹. Porteous A, Murray J, Ettinger M, et al. *J Exp Orthop*. Published online April 30, 2026. doi:10.1002/jeo2.70737. ². Panwar KS, Huish EG Jr, Law JL, et al. *J Arthroplasty*. 2024;39:1550–1556. ³. Innocenti M, Leggieri F, van Laarhoven SN, de Windt T, Civinini R, van Hellemond G. *Knee Surg Sports Traumatol Arthrosc*. 2025;33:3606–3620.

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