

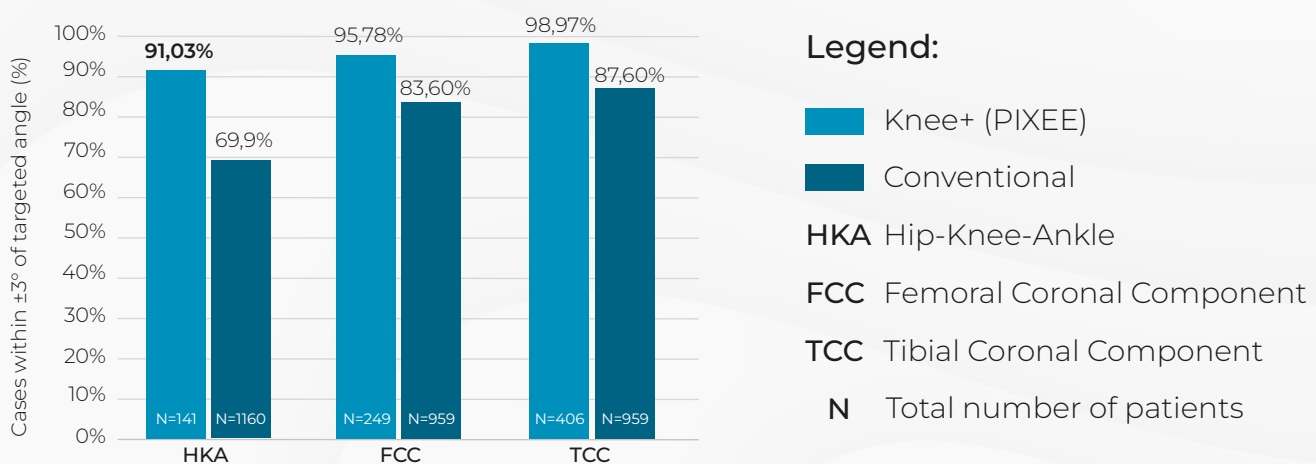
Enhanced Precision and Clinical Benefits over Conventional TKA



Knee+ has demonstrated its accuracy across multiple independent clinical publications. In the graph below, results from **6 Knee+ studies**¹⁻⁶ were combined, representing a total of **406 patients** when complete datasets were available.

Compared with conventional instrumentation⁷, Knee+ demonstrates significant improvements in alignment accuracy, confirming its high, reproducible precision.

Comparison of Alignment Accuracy Between Knee+ and Conventional TKA



Percentages for the Knee+ group were calculated from studies 1-6 and weighted according to the number of patients included in each study. The percentage for the conventional group was derived from study 7.

These accuracy results are further supported by favorable clinical outcomes and an excellent safety profile with Knee+.



CLINICAL OUTCOMES

Compared with conventional TKA

- Blood loss reduced (Hb drop 13.4 vs 18.6 g/L; $p = 0.001$)⁸
- Postoperative ROM greater (130.8° vs 123.5°; $p = 0.011$)⁸
- PROMs favorable and comparable with high-performing robotic systems⁸



SAFETY PROFILE

- Only +3 minutes of operative time with Knee+ vs conventional TKA.⁹
- 0 complication related to Knee+ reported¹⁻⁴
- No additional pins needed
 - Reduces periprosthetic fracture risk³
 - Eliminates pin-related infection risk³



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¹ Bennett KM, Griffith A, Sasanelli F, Park I, Talbot S. Augmented Reality Navigation Can Achieve Accurate Coronal Component Alignment During Total Knee Arthroplasty. *Cureus*. 2023.

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³ Sakellariou E, Alevrogiannis P, Alevrogianni F, Galanis A, Vavourakis M, Karampinas P, Gavril P, Vlamis J, Alevrogiannis S. Single-center experience with Knee+™ augmented reality navigation system in primary total knee arthroplasty. *World J Orthop*. 2024.

⁴ Lambrechts J, Vansintjan P, Lapierre C, Sinnaeve F, Van Lysebettens W, Van Overschelde. Accuracy of a New Augmented Reality Assisted Technique for Total Knee Arthroplasty: An In Vivo Study. *Arthroplast Today*. 2024.

⁵ Castellarin G, Sisella M, Innocenti B. High accuracy and learning curve improvement of augmented reality in total knee arthroplasty: A single-centre study on 157 patients. *J Exp Orthop*. 2025.

⁶ Duval G, Emery A, Tripon M, Oger R, Dunet J, Maroteau G, Hulet C. Contribution of a new augmented reality system in total knee arthroplasty implantation. An in vivo, prospective, non-comparative study of 60 cases. *Orthop Traumatol Surg Res*. 2025 Dec 6

⁷ Hetaimish BM, Khan MM, Simunovic N, Al-Harbi HH, Bhandari M, Zalzal PK. Meta-analysis of navigation vs conventional total knee arthroplasty. *J Arthroplasty*. 2012 Jun;27(6)

⁸ Panchal S, Barker B, Highcock AJ. Improved alignment and reduced peri-operative blood loss with augmented reality-guided total knee arthroplasty: a single-centre comparative study. *J Robot Surg*. 2026 Feb 24;20(1):285. doi: 10.1007/s11701-026-03245-4.

⁹ Farner N, Jawanda G, Santiago-Rivera O, Kassab S. Augmented Reality-Assisted vs Manual Total Knee Arthroplasty: Clinical and Perioperative Outcomes in a Consecutive Single-Surgeon Cohort. *Arthroplast Today*. 2026