

Short-term clinical outcomes following JOURNEY[◇] II XR[◇] total knee arthroplasty (TKA)

Tria AJ, Bateman DK, Preston JS, Diamond KB. Bicruciate retaining total knee arthroplasty: short-term clinical outcomes using a novel prosthesis. *J Long Term Eff Med Implants*. 2021;31:69-75.

Available at: [Journal of Long-Term Effects of Medical Implants](#) 

Key points

At final follow-up:



JOURNEY II XR TKA patients demonstrated significantly improved overall ROM ($p < 0.001$), compared to pre-TKA



JOURNEY II XR patients reported significantly improved pain and functional knee scores ($p < 0.001$), compared to pre-TKA



There were no intraoperative complications or device related revisions with JOURNEY II XR

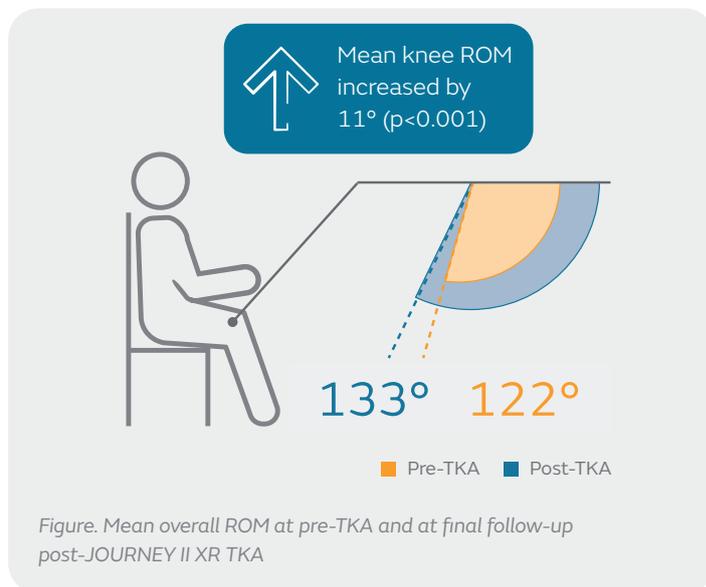
Overview

- A retrospective, single surgeon, review of clinical outcomes of JOURNEY II XR patients with a minimum 2 year follow-up, between March 2016 and December 2019
 - 40 patients (47 TKAs, mean age, 66.7 years; mean follow-up, 29.6 months)
- Pre- and post-TKA range of motion (ROM), Visual Analog Scale (VAS) for pain, Knee Society Scores, and complication data were recorded
- Pre- and post-TKA radiographs were assessed for alignment and the presence of radiolucent lines

Results

At final follow-up, JOURNEY II XR patients demonstrated:

- Significantly improved extension (0.5 vs 2.1° ; $p = 0.001$), flexion (133.0 vs 124.6° ; $p < 0.001$) and overall ROM (132.6 vs 122.4° ; $p < 0.001$; Figure) compared to pre-TKA
- Significantly improved KSS Knee (92.0 vs 64.4 ; $p < 0.001$), KSS Function (91.6 vs 68.1 ; $p < 0.001$) and VAS Pain scores (1.0 vs 6.8 ; $p < 0.001$)
- Only one revision due to recurrent patellar subluxation following a traumatic fall
- No intraoperative complications
- Two non-progressive radiolucent lines



Conclusions

At short-term follow-up, JOURNEY II XR demonstrated excellent ROM, improved pain and function outcome scores compared to pre-TKA.