

Evidence in focus

Study summary

Hommel H, Wilke K. *Open Orthop J* (2017)*



Supporting healthcare professionals for over 150 years

JOURNEY[◇] II BCS shows good early results

Low complication rate and positive clinical outcomes noted at one-year follow up



Study design

A single-surgeon retrospective case series comparing short-term results with the JOURNEY BCS (BCS I) and JOURNEY II BCS (BCS II):

- BCS I: 153 patients (mean age, 69.2 years) followed for 28 months
- BCS II: 104 patients (mean age, 68.5 years) followed for 15 months



Key results

Positive clinical outcomes with BCS II at one-year follow-up:

- Significant improvements over baseline in Knee Score, Function Score and range of motion (ROM)
- Average postoperative scores: Knee Score, 91; Function Score, 88; ROM, 127°

Limited complications with BCS II:

- No stiffness (defined as: flexion < 90°)
- Little or no clinically meaningful iliotibial band (ITB) friction syndrome

98.1% No ITB friction syndrome

1.9% Mimicking ITB friction syndrome

0% ITB friction syndrome requiring intervention

- No cases of luxation or postoperative pain
- Two knees (2.9%) less stable in mid flexion

Good clinical outcomes and a low rate of complications also reported for BCS I



Conclusion

Good early functional results and an acceptably low rate of complications were obtained with the BCS II and the earlier-generation BCS I.



Considerations

- A proper comparison between BCS I and BCS II was not possible, due to differences in follow-up times and patient demographics



Study citation

*Hommel H, Wilke K. Good Early Results Obtained with a Guided-Motion Implant for Total Knee Arthroplasty: A Consecutive Case Series. *Open Orthop J.* 2017;11:51–56.