

Title of Article: A Mid-term Clinical Outcome Study of the Advance Medial Pivot Knee Arthroplasty

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Citation: The Knee, 16 (2009) p. 484-88

Product(s): Advance® Medial-Pivot

Publication Highlights

- This mid-term study demonstrated that patients with ADVANCE® Medial-Pivot TKAs showed satisfactory pain relief and functional recovery.
- This mid-term study presented a high survivorship for the Advance® Medial-Pivot TKA. A cumulative survivorship of 99.1% (95% CI, 89-100%) at 5 years and 97.5% (95% CI, 65.6-100%) at 9 years.

Publication Summary

Methods

- Prospective clinical study of 284 Advance® Medial-Pivot TKAs (225 consecutive patients).
- Mean FU: 6.7 years (range, 4 to 9 years)– 92.5% of patients available for the study
- Diagnosis: idiopathic osteoarthritis in 168 patients (75%), RA in 29 (13%), post-traumatic arthritis in 12 (5%), and seronegative arthritis in 10 (4%).
- M/F: 184 /41; Mean age at surgery: 71 years (range, 52-84 years)
- Outcome measures: Knee Society Score and Function Score, WOMAC, SF-12, Oxford Knee Score, Kaplan-Meier Survivorship
- Patient were asked to give a subjective report of pain relief, surgical expectations, and if they would repeat the surgical procedure again.

Results

- 99.1% success rate at 5-years FU and 97.5% at 9-years FU
- All patients showed a statistically significant improvement ($p=0.01$) in the Knee Society clinical rating system, WOMAC questionnaire, SF-12 questionnaire, and Oxford knee score
- 92% of patients were able to perform age-appropriate activities with a mean knee flexion of 117° (range 85° to 135°) at final follow-up
- 90% of patients reported that the surgery fulfilled their expectations and 97% of patients would repeat the procedure on another osteoarthritic joint.
- Complications:
 - Two TKAs for an active and overweight patient were revised, one infected TKA underwent a two-stage revision, and in one patient the prosthesis was revised after a fall from a height and consequent traumatic dislocation
 - 3.5% complained of anterior knee pain; 4 patients required manipulation under anesthesia; one patient complained of non-specific knee pain

Overall Conclusion

- **“In conclusion, patients with Advance medial pivot TKAs presented satisfactory pain relief and functional recovery in the mid-term, tested by both objective and subjective criteria.”**