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# CAN THE SUBVASTUS APPROACH FOR TOTAL KNEE ARTHROPLASTY HELP IN ACHIEVING HIGH FLEXION IN HIGHFLEX KNEES? RESULTS OF 242 **IEES AT FOUR YEARS**

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### **Abstract**

#### Objective

To evaluate the clinical and functional outcomes obtained by combination of high-flexion Freedom® Total Knee System (TKS) and mini-subvastus approach in total knee replacement patients.

#### Method

This is a retrospective, observational, real world study conducted at Mumbai in India from 2011 to 2016. All patients who were above the age of 18 and operated for total knee replacement (TKR) with mini-subvastus approach using Freedom (Maxx Medical) by the

senior author were included. The Implant survivorship was the survey endpoint; primary endpoint was range of motion (ROM); and secondary endpoints were AKSS (American Knee Society Score) and WOMAC (Western Ontario and McMaster Universities Osteoarthritis) scores collected pre- and post-operatively.

#### Results

184 patients with 242 knees (126 unilateral and 58 bilateral) were operated with high-flexion TKS. Average age of patients was  $70 \pm 6.2$  years. The mean ROM increased from 99.4°±10.44° (50°-120°) preoperatively to 116.78°±8.18° (88°-140°) postoperatively (p<0.001). Clinical and functional AKSS scores improved from  $60.83\pm5.12$  to  $91.16\pm2.19$  (p<0.001) and  $65.35\pm3.52$  to  $99.13\pm4.61$  (p<0.001) respectively. There average WOMAC pain scores improved from  $12.12\pm1.72$  to  $0.066\pm0.37$  (<0.0001). Moreover, post-operative WOMAC stiffness and function scores depicted significant improvement from  $4.43\pm0.97$  to  $0.03\pm0.26$  (p<0.0001) and  $0.03\pm0.26$  to  $0.18\pm1.21$  (p<0.0001) respectively at a mean follow-up of  $3.71\pm0.98$  years. Implant survivorship was 100%.

#### Conclusion

High-flexion Freedom® TKS demonstrated a satisfactory clinical and functional approvements including high flexion when operated by the mini-subvastus approach at a ean FU of 4 years.

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