



Balanced Knee® System Clinical Results

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Patient Data

Worldwide 16,320 BKS® Ortho Development knees have been implanted.

A total of 2,139 BKS® primary total knees have been implanted at St. Mark's Hospital between January 2000 and January 2009. During that same period, more than 16,320 knees have been implanted worldwide. Of the 2,139 knees 1,794 knees were eligible for one-year follow-up; two-year: 1,519 knees; three-year: 1224 knees; four-year: 934 knees; five-year: 622 knees; six-year: 410 knees; seven-year: 214 and for the eight-year follow-up 49 knees were eligible.*

The average pre-operative age was 69 (range 37-94) and women outnumbered men 7-to-3. Indications for surgery were osteoarthritis (94%), rheumatoid arthritis (2%), post-traumatic arthritis (3%), and other (1%).

Range of Motion

Pre-op ROM averaged 114°, Post-op ROM averaged 122°.

Pre-operative range of motion (ROM) measurements averaged 114° and ranged from 0° to 160°. At one-year follow-up, the average ROM was 124° ranging from 70° to 150°. At two-year follow-up, the average ROM was 124° ranging from 85° to 150°. At three-year ROM was 123° ranging from 70° to 146°. Four-year ROM was 123° ranging from 80° to 150°. Year five the ROM was 123° and averaged 100° to 145°. Year six ROM was 118° averaging 80° to 129°. Year seven ROM was 122° and averaged 105° to 136°. Year eight ROM was 122° and averaged 110° to 130°.

Knee Society Scores

Average eight-year follow-up Knee Society Score was 96, the functional score was 83.

At one-year follow-up, the average Knee Society Score was 91 and the average Knee Society Function Score was 84. At two-year follow-up, the average Knee Society Score was 91 and the average Knee Society Functional Score was 83. At three-year follow-up, the average Knee Society Score was 91 and the Knee Society Functional Score was 80. Four-year Knee Society Score was 91 and the Knee Society Functional Score was 78. The average five-year Knee Society Score was 93 and the average Knee Society Functional Score was 80. The average six-year Knee Society Score was 84 and the average Knee Society Functional Score was 76. The average seven-year Knee Society Score was 91 and the average Knee Society Functional Score was 75. The average eight-year Knee Society Score was 96 and the average Knee Society Functional Score was 83.

Patient Satisfaction Scores

At the six-year follow-up 92% of the patients were extremely or very satisfied.

Patients were asked to rate the satisfaction level of their knee replacement at each follow-up visit. The satisfaction categories were: extremely satisfied, very satisfied, moderately satisfied, slightly satisfied, and not satisfied at all. At the one-year follow-up 94% of the patients were extremely satisfied. At two-year follow-up 91% of the patients were extremely satisfied. At three-year follow-up 91% of the patients were extremely satisfied, and at four-year follow-up, 93% of the patients were extremely or very satisfied. At five-year follow-up, 91% of the patients were extremely or very satisfied. Six-year follow-up, 92% of the patients were extremely or very satisfied. Seven-year follow-up, 88% of the patients were extremely or very satisfied. Eight-year follow-up, 100% of the patients were extremely satisfied.*

*At eight-year follow-up three patients returned for follow-up.