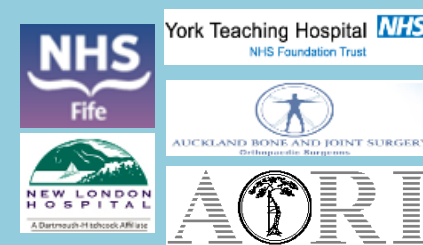


Patient Reported Outcomes in Primary Total Knee Arthroplasty (TKA) Among Currently Available Products: A Large Sample Prospective Worldwide Study

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PURPOSE

Operative times, clinical outcomes, and a series of patient reported outcomes (PROMs) were collected from subjects implanted with currently available products from a variety of manufacturers to establish a contemporary reference dataset of outcomes and change from pre-op baseline (CFB).

MATERIALS & METHODS

- Worldwide, Prospective, Multi-Center, Non-Randomized Study - (NCT# 01497730)
- PROMS: KOOS (includes WOMAC), PKIP, OKS, & EQ5D
- Interim results: Data through January 2016

Implants	Sigma [®] - DePuy Synthes (89%) NexGen [®] - Zimmer (3%) Triathlon [®] - Stryker (7%) Other (1%)												
Number of Sites	22 sites across US, UK, AUS, and NZ												
Study Participants	845 Knees												
Enrollment Period	October 2011 - March 2015												
Configurations	Balanced across: CR FB, CR RP, PS FB, PS RP												
Study Visits	Pre-Op, Post-op to 10 months, 1-year, 2-years												
Demographics	<table border="0"> <tr> <td></td> <td>(% or Mean ± SD)</td> </tr> <tr> <td>Gender:</td> <td>58% women</td> </tr> <tr> <td>Diagnosis:</td> <td>98% OA</td> </tr> <tr> <td>Age:</td> <td>65.6 ± 8.2</td> </tr> <tr> <td>BMI:</td> <td>31.9 ± 6.4</td> </tr> <tr> <td>Skin-Skin OR Time:</td> <td>72.0 ± 21.7</td> </tr> </table>		(% or Mean ± SD)	Gender:	58% women	Diagnosis:	98% OA	Age:	65.6 ± 8.2	BMI:	31.9 ± 6.4	Skin-Skin OR Time:	72.0 ± 21.7
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RESULTS

Min 1-year PROMs		Scale	Mean ± SD	CFB Mean ± SD
KOOS	Activities of Daily Living	0-100	85.3 ± 15.7	34.9 ± 20.2
	Pain	0-100	84.9 ± 16.5	38.6 ± 20.7
	Symptoms	0-100	78.4 ± 17.0	30.0 ± 23.0
	Function in Sport & Recreation	0-100	55.3 ± 30.4	37.0 ± 31.8
	Quality of Life	0-100	70.2 ± 23.2	44.9 ± 26.0
OKS		0-48	40.3 ± 7.3	17.1 ± 8.9
PKIP	Overall	0-100	71.6 ± 19.0	43.8 ± 22.1
	Confidence	0-10	8.0 ± 1.9	4.3 ± 2.4
	Stability	0-10	8.2 ± 2.0	4.8 ± 2.5
	Satisfaction	0-10	7.9 ± 2.1	5.8 ± 2.5
	Modifying Activities	0-10	6.2 ± 3.3	2.5 ± 4.3
EQ5D-3L		-1-1	0.85 ± 0.19	0.26 ± 0.26

Overall PKIP & PKIP Satisfaction varies: with configuration (CR FB, CR RP PS FB PS RP)

PKIP Satisfaction Correlated with

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KOOS ADL (R² = 48%)
KOOS-Pain (R² = 50%)
OKS (R² = 52%)

CONCLUSIONS

- These results provide a large, multi-center, reference dataset of early outcomes for TKA subjects, which can help elucidate factors (functional outcomes, pain, implant configuration) associated with patient dissatisfaction in current TKAs.
- This dataset may be useful for future comparisons.

Acknowledgments:

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