

1 – ATTUNE has improved implant survivorship and clinical outcome over PFC Sigma

A single surgeon series of 1000 cases with minimum 2 years follow up

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Introduction

The first 500 ATTUNE TKAs performed at our institution (Dec 2011- July 2015) were compared to our last 500 PFC Sigma TKAs (Dec 2008- Apr 2015). Independently collected Oxford Knee Scores were available for 283 ATTUNE and 224 PFC Sigma TKAs.



	ATTUNE	PFC Sigma	
Age	Mean 66.7 (SD 10.4)	Mean 68.5 (SD 10.9)	p=0.005
Male	45%	42%	p=0.09
Diagnosis OA	96.7%	96.1%	
BMI	Mean 31 (SD 7.9)	Mean 33 (SD 6.2)	p=0.005
Femur CR : PS	262 : 238	3 : 497	p<0.001
Tibia RP : FB	472 : 28	314 : 186	p<0.001
Patella resurfaced	63%	96%	p<0.001
Pre-op Oxford Knee Score	Mean 18.6 (SD 7.5)	Mean 17.3 (SD 7.5)	p=0.06
Post-op Oxford Knee Score	Mean 36.5 (SD 8.8)	Mean 32.7 (SD 9.1)	p<0.0001
Oxford Knee Score improvement	Mean 17.9 (SD 9.0)	Mean 15.2 (SD 9.1)	p=0.001

Results

The ATTUNE had significantly higher implant survivorship (Wilcoxon test, p=0.02); re-operation rates were similar (p=0.3). Re-operations included MUA, DAIR procedures and secondary patellar resurfacing. Secondary patellar resurfacing was not included as a revision due to the difference in primary resurfacing rates between the two groups.

Conclusion

ATTUNE has significantly improved implant survivorship over PFC Sigma at short-term follow up. Clinical outcome is also significantly improved, but this does not reach the minimal clinically important difference for the Oxford Knee Score.

