

Background: Learning curve is rarely studied in the orthopaedic literature and may be important to surgeons considering adoption of new products

Purpose: to evaluate the learning curve associated with a new TKA design (implant & instruments) and compare patient reported outcome measures (PROMs)

Materials & Methods

- **Learning Curve Comparison (surgical time, complications): 1st 10 cases vs. later cases**
 - Combined subjects from 2 prospective worldwide studies (2369 ATTUNE TKAs, 48 sites)
 - All surgeons attended cadaveric & didactic training prior to enrolment
- **Clinical Outcomes Comparison (PROMs)**
 - Pooled ATTUNE TKA data & compared to 845 Current Products

(NCT # 01746524 & NCT# 01754363 vs NCT# 01497730)

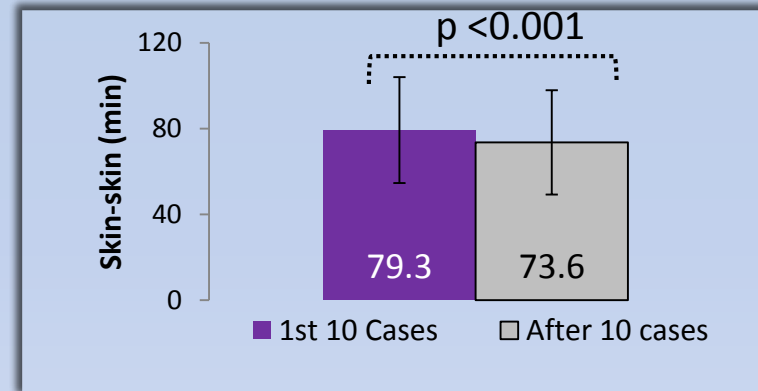
Data extracted: January 2016

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Results

Mild Learning curve

- Mean surgical time reduced by 6 minutes after 10 cases & was on par with surgical time for current TKA



No Apparent Learning Curve

- No difference in the Incidence of intraoperative Knee Complications, $p= 0.230$
- No difference in PROMS: 1st 10 vs. later ATTUNE TKAs
- Pooled data: Trend favoring ATTUNE TKA (KOOS-ADL/Symptoms/Sports&Rec) vs current products, $p<0.05$

CONCLUSIONS

- Surgeons experienced a mild surgical time learning curve that was completed after 10 cases
- No apparent learning curve with PROMS or complications
- Longer term follow-up is ongoing

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