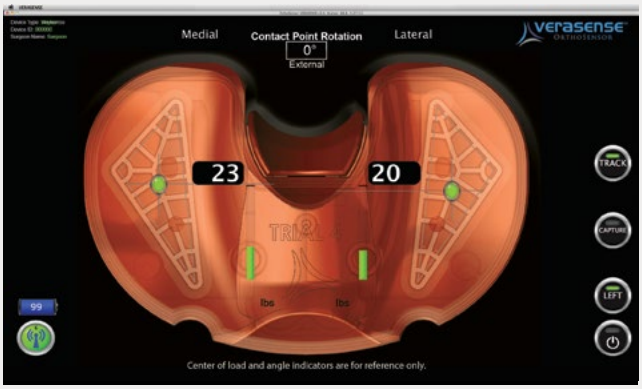
TWO-YEAR RESULTS: MULTICENTER STUDY

BALANCED VS UNBALANCED

- Satisfaction increased at 2 years: 97% reporting being “satisfied” to “very satisfied”
- At the 2-year interval, unbalanced patients have not yet achieved the 6-month scores previously set by balanced patients, for all outcomes measures
- An intersurgeon comparison demonstrates that there is no significant difference between patient reported outcomes in a cross-comparison of all study sites. All sites achieved the same high level of satisfaction, lowered pain, and increased function.

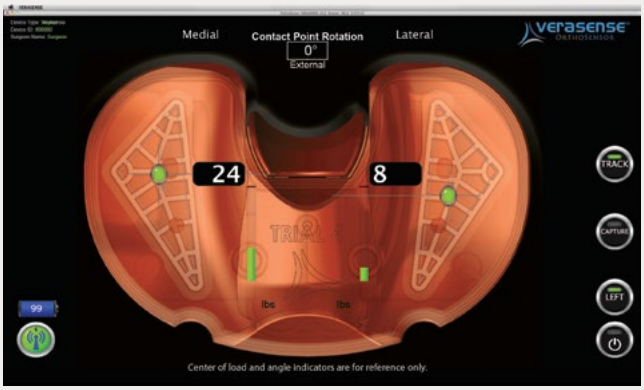
BALANCED

≤ 15 lbs MEDIOLATERAL DIFFERENCE



UNBALANCED

> 15 lbs MEDIOLATERAL DIFFERENCE



IN A MULTICENTER STUDY WITH **135 PATIENTS** AND **8 CONTRIBUTING SURGEONS**

97% OF **QUANTIFIABLY BALANCED PATIENTS** WERE **SATISFIED-TO-VERY SATISFIED**

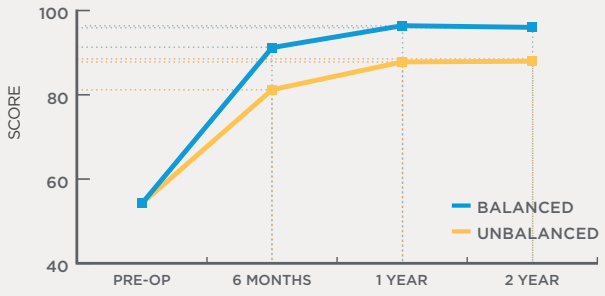
2-YEAR[1] POST-OP

RESULTS AT 2 YEARS
POST-OPERATIVE FOLLOW UP

PATIENT-REPORTED CLINICAL OUTCOMES

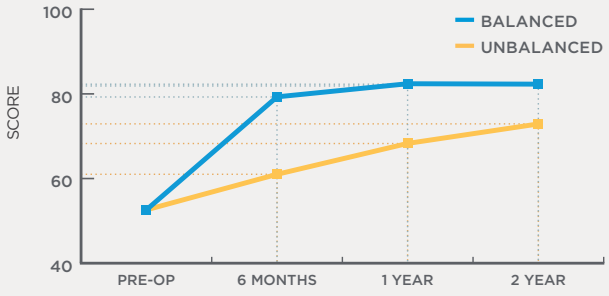
All graphs exhibit statistical significance, for all intervals. Six-month and 1-year data has been previously published in peer-reviewed journals.

KNEE SOCIETY SCORE (KSS) PAIN



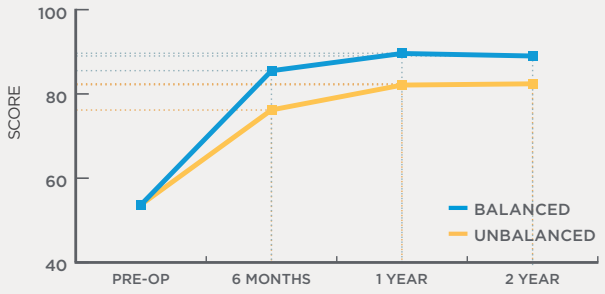
BALANCED AVG SCORE: 96.2 | UNBALANCED AVG SCORE: 88.1

KNEE SOCIETY SCORE (KSS) FUNCTION



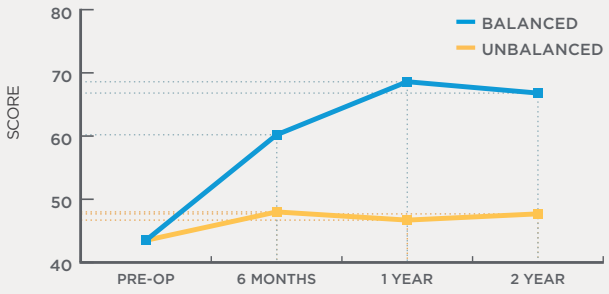
BALANCED AVG SCORE: 82.4 | UNBALANCED AVG SCORE: 72.9

WOMAC



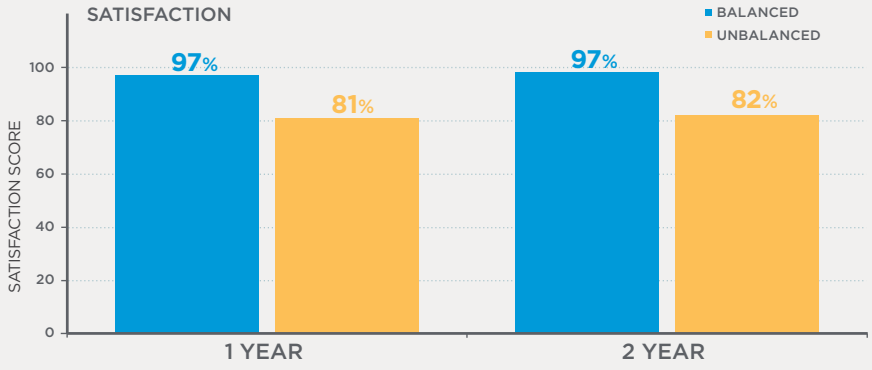
BALANCED AVG SCORE: 89 | UNBALANCED AVG SCORE: 82.4

ACTIVITY LEVEL



BALANCED AVG SCORE: 66.8 (LIGHT TO MODERATE LABOR) | UNBALANCED AVG SCORE: 47.6 (SEMI-SEDENTARY)

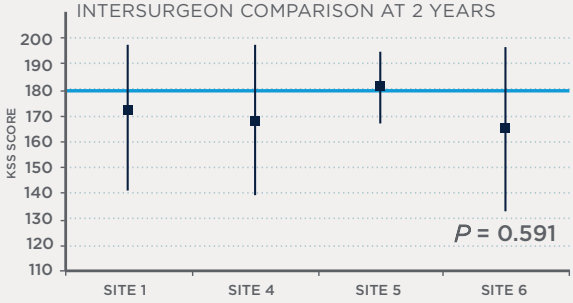
SATISFACTION



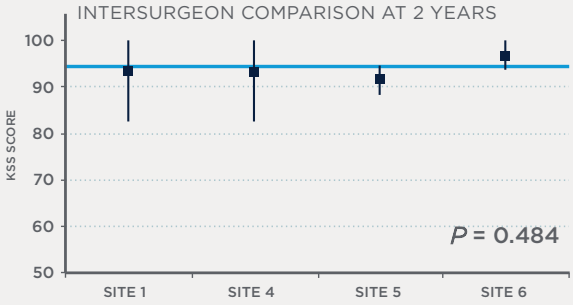
RESULTS AT 2 YEARS
POST-OPERATIVE FOLLOW UP

INTERSURGEON COMPARISON

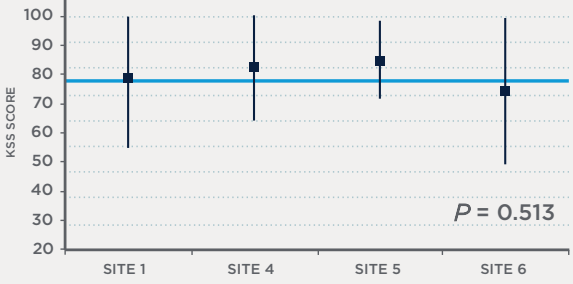
TOTAL KNEE SOCIETY SCORE (KSS)
INTERSURGEON COMPARISON AT 2 YEARS



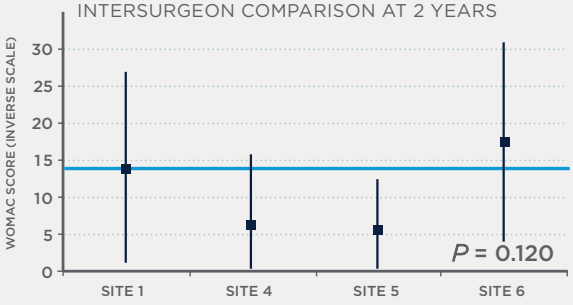
KSS PAIN
INTERSURGEON COMPARISON AT 2 YEARS



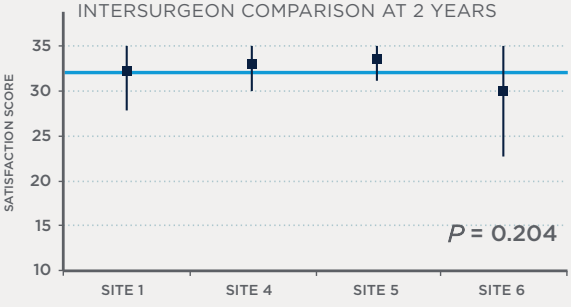
KSS FUNCTION
INTERSURGEON COMPARISON AT 2 YEARS



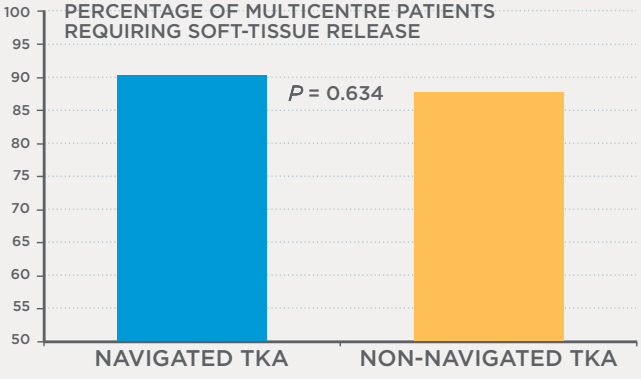
WOMAC
INTERSURGEON COMPARISON AT 2 YEARS



SATISFACTION
INTERSURGEON COMPARISON AT 2 YEARS



PERCENTAGE OF MULTICENTRE PATIENTS REQUIRING SOFT-TISSUE RELEASE



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UNIVERSITY OF WISCONSIN–MADISON

VCU Medical Center
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PEER-REVIEWED PUBLICATIONS

1. Schnaser E, Lee L, Della Valle AG. Patellar Position Affects Intraoperative Compartmental Loads During TKA: A Pilot Study Using A Novel Radiofrequency Knee Soft-Tissue Balancer. *J Arthroplasty.* 2015 (In Press).
2. Roche MW, Elson LC, Anderson CR. A Novel Technique Using Sensor-Based Technology To Evaluate Tibial Tray Rotation. *Orthopedics*. 2015 Mar 1;38(3).
3. Gustke K. Soft Tissue and Alignment Correction: The Use of Smart Trials. *Bone Joint J*. 2014 Nov;96-B(11 Supple A):78-83.
4. Gustke KA, Golladay GJ, Roche M, Elson L, Anderson C. Primary TKA patients with Quantifiably Balanced Soft-Tissue Achieve Significant Clinical Gains Sooner than Unbalanced Patients. *Adv Orthop*. 2014:628695
5. Gustke K, Golladay G, Jerry G, Roche MW, Elson LC, Anderson CR. Increased Patient Satisfaction After Total Knee replacement using sensor-guided technology. *Bone Joint J*. 2014 Oct;96-B(10):1333-8
6. Golladay G, Gustke K, Roche M, Elson L, Anderson C. Post-operative Weight Gain After Total Knee Arthroplasty: Prevalence and Its Possible Attenuation Using Intraoperative Sensors. *Reconstructive Review*, March 2014.
7. Roche M, Elson L, Anderson C. Dynamic Soft-Tissue Balancing in TKA. *Orthopedic Clinics of North America*. 2014 Apr;45(2):157-65.
8. Gustke K, Golladay G, Roche M, Elson L, Anderson C. A New Method for Defining Balance: Promising Short-term outcomes of Sensor-Guided TKA. *J Arthroplasty*. 2014 May;29(5):955-60
9. Walker P, Meere P, Bell C. Effects of Surgical Variables in Balancing of Total Knees Using an Instrumented Tibial Trial. *Knee*. 2014 Jan;21(1):156-61
10. Gustke K. Use of Smart Trials for Soft-Tissue Balancing in Total Knee Replacement Surgery. *J Bone Joint Surg Br*. 2012 Nov;94(11 Suppl A):147-50

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