VERASENSE™

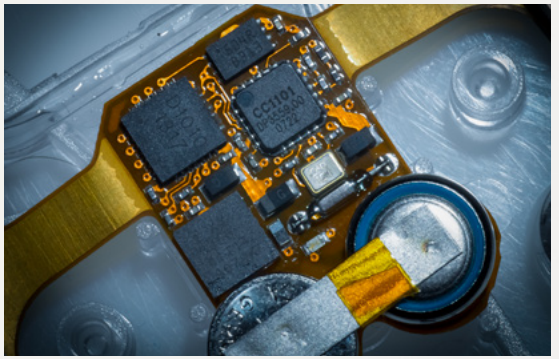
ORTHOSENSOR™

SENSOR-ASSISTED TKA

AN EVOLUTION IN TOTAL KNEE ARTHROPLASTY

OrthoSensor's VERASENSE Sensor-Assisted TKA disposable instrument delivers evidence-based data wirelessly to an intra-operative monitor that enables surgeons to make informed decisions on ligament/soft tissue balance and implant position in real time. As a result, patients whose knees have been balanced through the use of VERASENSE show statistically significant improvements in joint function, pain, activity level and patient satisfaction.

VERASENSE is the next evolution in Total Knee Arthroplasty.

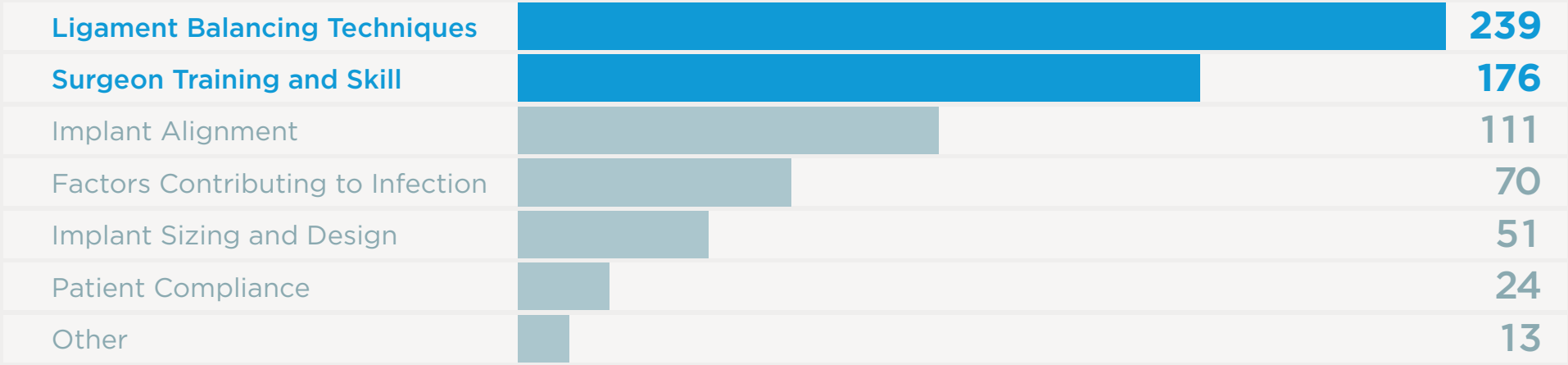


WHY VERASENSE?

Improper soft tissue balance and mal-alignment cause approximately 40% of all premature implant failures,[1,3] burdening patients, providers and payors with high cost revision surgery. The importance of proper ligament balance, implant rotation and limb alignment to maximize implant survivorship is well understood in clinical peer-reviewed literature. Until now, decisions concerning these factors have varied based on an individual surgeon's judgement, experience and skill, as surgeons have lacked a quantifiable instrument and data to optimize their soft tissue balance and knee kinetics. VERASENSE advances soft tissue management from a feel-based art to a quantifiable science, thereby reducing post-op risk of pain, imbalance and instability - all of which can lead to early revision and implant failure.

VERASENSE enables surgeons to quantify ligament balance and improves surgeon skill through real-time, evidence-based data.

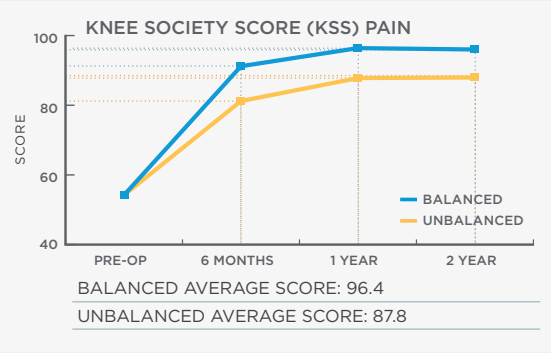
INDEPENDENT SURGEON POLL: **WHAT AREAS NEED TO BE ADDRESSED MOST URGENTLY TO IMPROVE TKA OUTCOMES?**



VuMedi. Access date Feb 20, 2015. *Which of the following areas do you feel needs to be addressed most urgently to improve TKA outcomes?* Retrieved from https://www.vumedi.com/discussion/why-are-total-knees-failing-today-etiology-of-total-knee-revision-in-2010-and-2011/

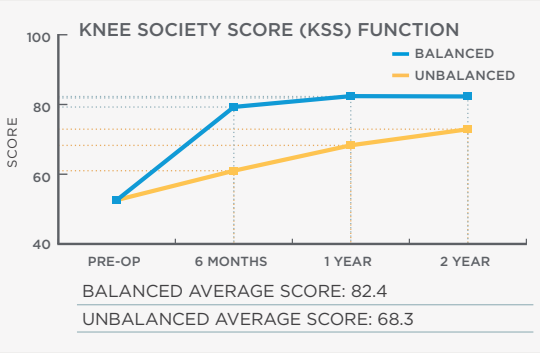
IMPROVED CLINICAL PERFORMANCE

Knee instability is a leading cause of patient dissatisfaction after TKA. 97% of patients whose knees were balanced using VERASENSE reported being “satisfied” to “very satisfied” versus 82% of patients whose knees were left unbalanced (average post TKA patient satisfaction in peer-reviewed literature is 81%). Two years after surgery, the unbalanced cohort of patients had yet to achieve the outcome scores set by the balanced cohort of patients just six months after surgery. Research shows that balanced knees lead to less post-operative pain, which allows for increased activity levels, and improved functional outcomes and patient satisfaction.



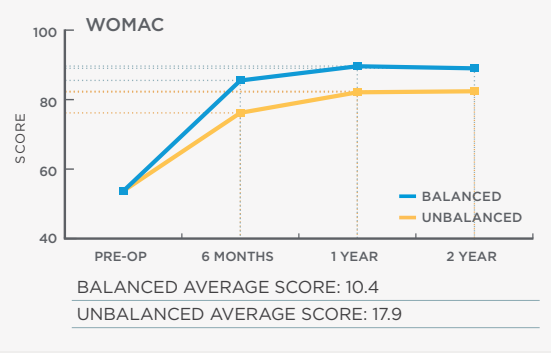
BALANCED AVERAGE SCORE: 96.4

UNBALANCED AVERAGE SCORE: 87.8



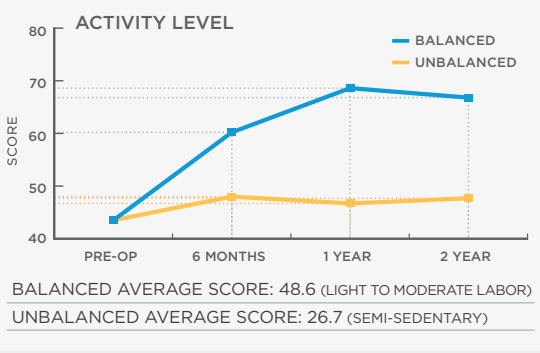
BALANCED AVERAGE SCORE: 82.4

UNBALANCED AVERAGE SCORE: 68.3



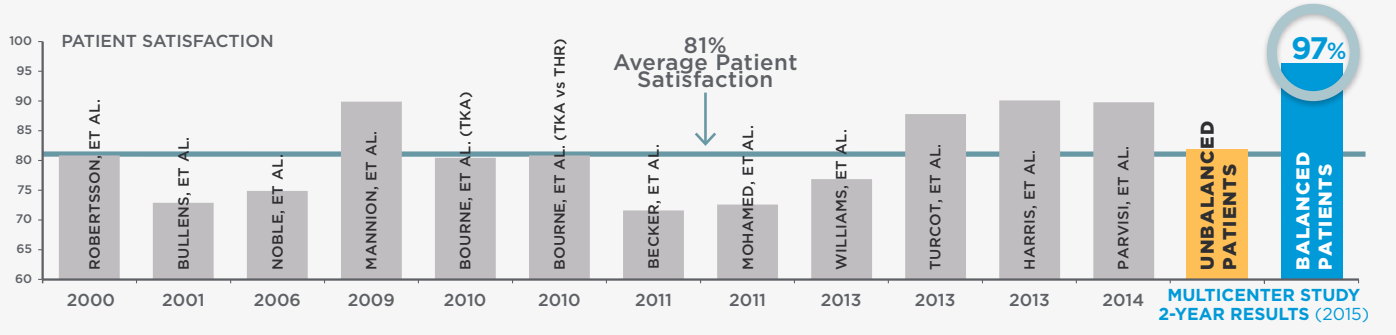
BALANCED AVERAGE SCORE: 10.4

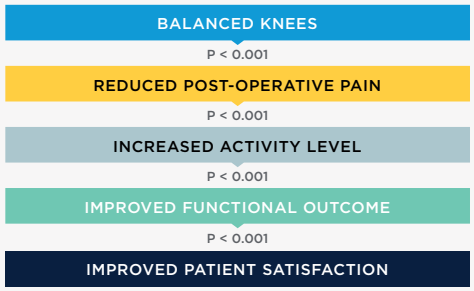
UNBALANCED AVERAGE SCORE: 17.9



BALANCED AVERAGE SCORE: 48.6 (LIGHT TO MODERATE LABOR)

UNBALANCED AVERAGE SCORE: 26.7 (SEMI-SEDENTARY)

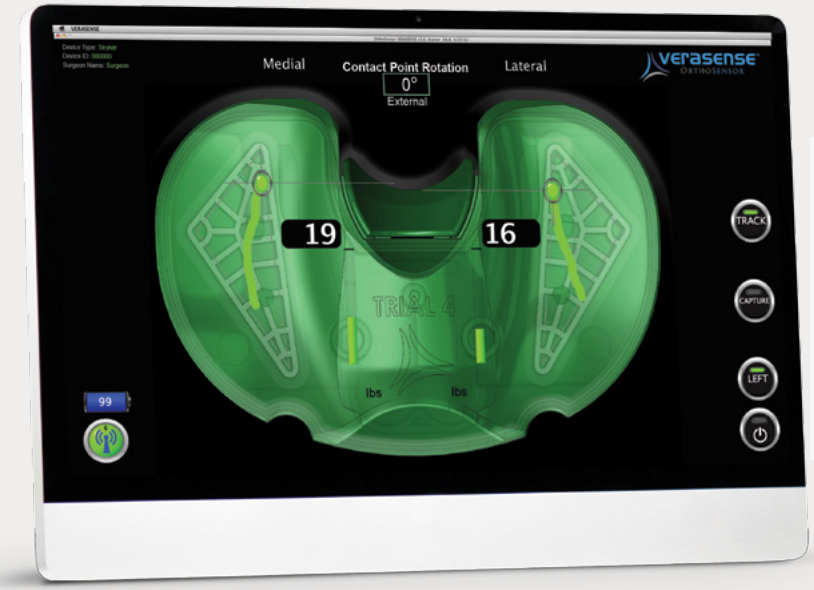


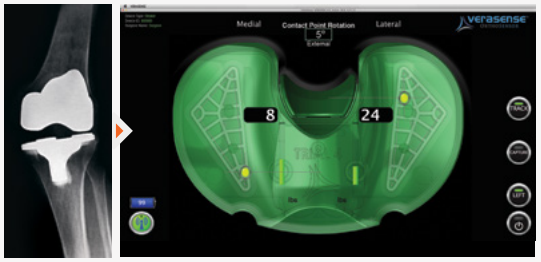


BENEFITS OF VERASENSE SENSOR-ASSISTED TKA

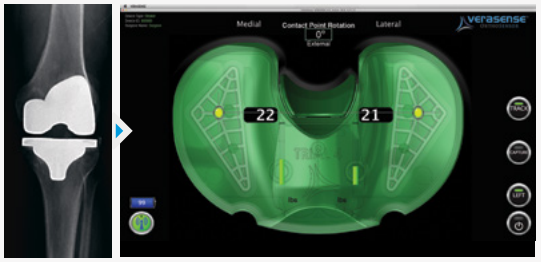
You can't change what you can't measure. VERASENSE quantifies soft tissue balance to improve outcomes for your patients. Such improvements in quality of care and patient outcomes are vital for CMS, payor and patient-performance measures by:

- **Reducing technical variability and surgery outliers**
- **Reducing need for manipulation under anesthesia**
- **Reducing risk of pain, instability, implant failure and early revision**
- **Increasing knee function, activity levels and patient satisfaction**





MALALIGNED AND UNBALANCED



ALIGNED AND BALANCED

VERASENSE is compatible for use with the following knee systems:

stryker · BIOMET · zimmer · smith&nephew

*No capital investment required

VERASENSE

Gold Application Award
2014 Best of Sensors
Expo Awards

ORTHOSENSOR

Finalist
2013 Medical Device
Manufacturer of the
Year Award

VERASENSE

Bronze Application Award
2013 Best of Sensors
Expo Awards

ORTHOSENSOR

Runner-Up
Which Medical Device
of the Year Award 2012

ORTHOSENSOR®

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