

Corin

Connected Orthopaedic Insight

OMNIBotics® robotic-assisted total knee replacement Precision you can feel



About total knee replacement

The goal of total knee replacement is to replace the damaged cartilage and bone with an implant system to replicate the normal human motion. Successful knee replacement is dependent on many factors, including leg alignment, implant fit, and soft tissue balance.

About OMNIBotics

OMNIBotics is a state-of-the-art procedure that combines patented technology with robotic instrumentation to help surgeons plan and execute total knee replacement.

Much like we rely on GPS navigation to find the best route, OMNIBotics uses computer guidance to measure your anatomy and create a customized plan in order to optimize overall outcomes.

The OMNIBotics advantage

This advanced procedure was designed to provide the following benefits:

- Accurate implant placement for improved function and longevity
- No MRI or CT scan required, reducing potential risk of additional radiation exposure
- Advanced software creates an individualized surgical plan for every patient
- Soft tissue balancing to promote improved recovery with less pain



The OMNIBotics procedure has demonstrated an overall patient satisfaction rate above 96%, compared to 81% from traditional methods.*

How does OMNIBotics work?

By using patented technology with robotic instrumentation, surgeons can achieve more consistent results with greater accuracy.¹ This means a better chance of an improved alignment of the knee implant which may extend the life of the implant as well as improve its functionality.²

Patient specific planning

Using patented Bone Morphing™ technology, surgeons can quickly produce a 3D model your knee during surgery. The BalanceBot™ is used to measure your soft tissue structures, helping to create a customized implant plan specific to your anatomy.

Robotic precision

With the plan in place, the surgeon can use the OMNIBot robotic cutting guide to assist with the removal of the arthritic knee surfaces.

The precision of this guide is important to ensure the implant plan is carried out, within accuracy that has been shown to be significantly better than other knee replacement procedures available.³

Documented alignment and balance

Once the bone is prepared, the surgeon will again measure the soft tissue balance and knee function with the BalanceBot. These measurements help confirm the plan was carried out to plan, and to provide insight as to how the total knee replacement will perform. A final report can be generated to keep with the patient records.

Am I a good candidate for OMNIBotics?

Almost all candidates for total knee replacement are able to benefit from OMNIBotics, which may improve your chances of a better outcome and restore your quality of life. Please speak to your physician if your symptoms are not responding to non-surgical solutions or if your pain may no longer be controlled by medication. You may be a candidate for surgery.

For more information, visit www.coringroup.com

References

1. Koulalis D, O'Loughlin PF, Plaskos C, Kendoff D, Pearle AD. "Adjustable cutting blocks for computer-navigated total knee arthroplasty a cadaver study". J Arthroplasty. 2010 Aug;25(5):807-11.
2. Ritter, Et al. "The Effect of Alignment and BMI on Failure of Total Knee Replacement". J Bone Joint Surg, 2011; 93-A:1588-96.
3. Clarke, "Robotic vs Computer assisted Navigation in TKA, Intraoperative Efficiency and Accuracy", ISRN Orthopedics Colume 2013, Article ID 794827

* Data on file at Corin Group

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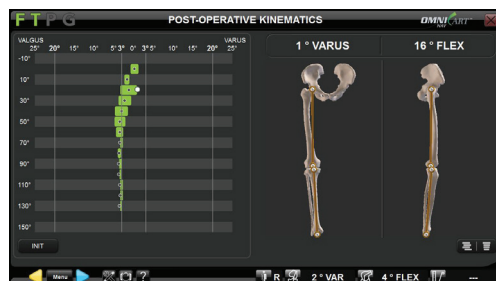
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Advanced computer software helps map patient anatomy to create a customized plan.



Robotic instrumentation measures the knee structures and prepare the bone for new implants.



The final implant kinematics are confirmed at the end of surgery, verifying a successful result.

