

Take control. Get better.

**Smith+Nephew**

RI.KNEE NAVIGATION

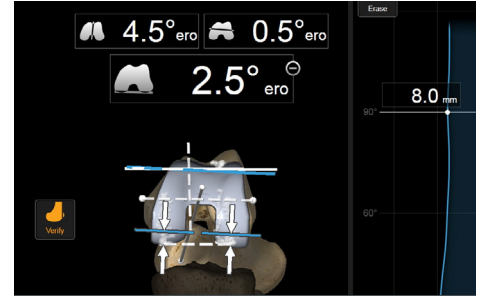
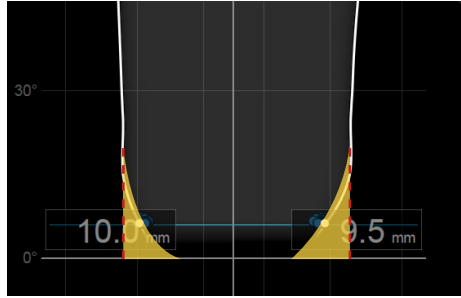
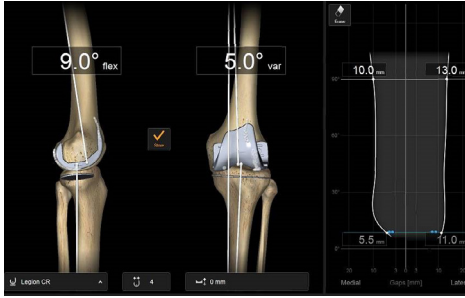
Total Knee Arthroplasty



**+ Real Intelligence**

# Take control

20% of all patients are unhappy with their total knee reconstruction.<sup>1</sup> Real Intelligence (RI) KNEE NAVIGATION will help you to take control of gap balancing and soft tissue management.



## Characterize

the knee disease state and take appropriate treatment decisions for the patient.

## Predict

knee stability through the full range of motion based on joint mobility, cutting block position and implant geometry.

## Verify

resections, alignment, and knee balance to control the surgical result.

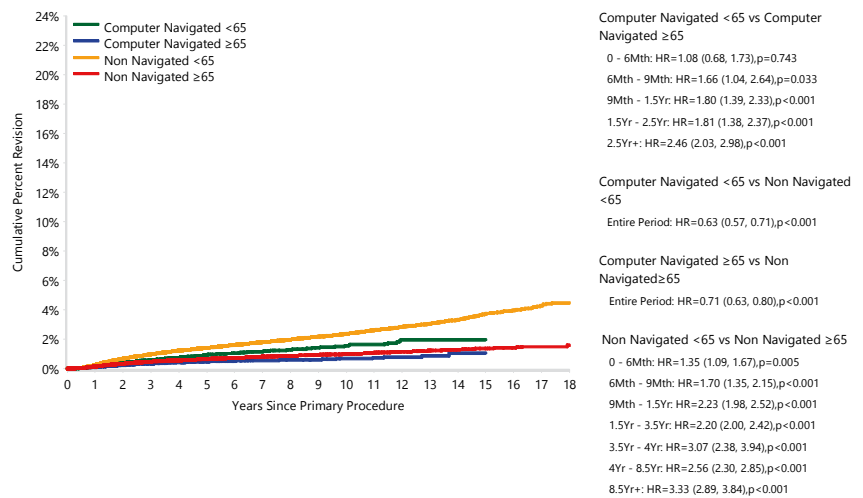
# Get better

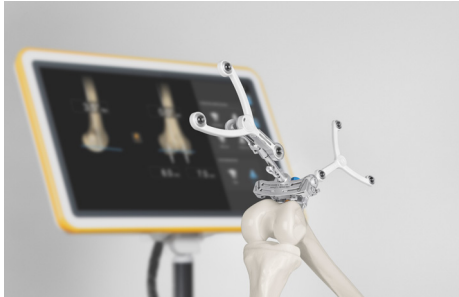
As shown in the Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR), navigation helps provide better patient outcomes in Total Knee Arthroplasty (see Figure KT38).<sup>5</sup>

## Get better patient outcomes with navigation

- Better alignment and fewer outliers<sup>2</sup>
- 20% lower revision rate<sup>3</sup>
- Improved patient reported outcomes<sup>4</sup>

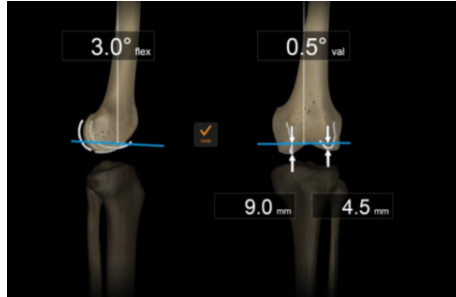
**Figure KT38 Cumulative Percent Revision for Loosening of Primary Total Knee Replacement by Computer Navigation and Age (Primary Diagnosis OA)**





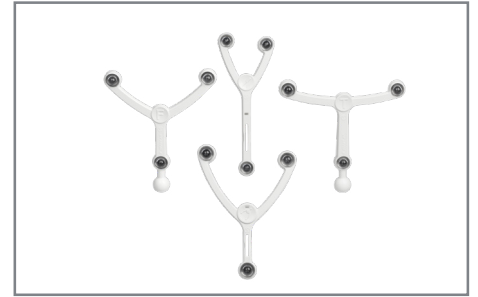
## Get better technology in the OR

- Quantify and make soft tissue and balance management visible
- Advanced user interface virtually eliminates screen interaction
- Supports total, partial and revision knee replacement
- Minimal impact on surgical procedure and time<sup>6</sup>



## Get better support for different surgical techniques and philosophies

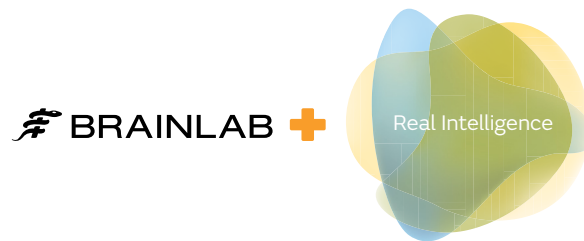
- RI.KNEE NAVIGATION Universal can be used with almost any implant manufacturer
- RI.KNEE NAVIGATION pinless verification workflow does not require array fixation
- Supports measured resection, gap balancing, kinematic and anatomic techniques
- RI.KNEE NAVIGATION offers multiple workflows to serve different surgeons needs and philosophies



## Get better visibility with ClearLens tracking technology

- Occlusion tolerant markers help to maintain marker visibility<sup>7</sup>
- Faster setup and simplified tray management compared to sphere configuration<sup>6\*</sup>
- Disposable tracking arrays with preinstalled markers are ready-to-use from the peel pack
- Delivered as a sterile packaged set for one knee replacement procedure

<sup>6</sup>Compared to setup time using NDI marker spheres with KNEE2.6 and KNEE3



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For detailed product information, including  
indications for use, contraindications, precautions  
and warnings, please consult the product's  
applicable Instructions for Use (IFU) prior to use.

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#### References

**1.** Scott CEH, Howie CR, MacDonald D, Biant LC. Predicting dissatisfaction following total knee replacement. *J Bone Joint Surg Am.* 2010;92-B(9):1253-1258. **2.** Mason JB, Fehring TK, Estok R, Banel D, Fahrbach K. Meta-Analysis of Alignment Outcomes in Computer-Assisted Total Knee Arthroplasty Surgery. *J Arthroplasty.* 2007;22(8):1097-1116. **3.** De Steiger RN, Liu YL, Graves SE. Computer Navigation for Total Knee Arthroplasty Reduces Revision Rate for Patients Less Than Sixty-five Years of Age. *J Bone Joint Surg Am.* 2015;97(8):635-642. **4.** Petursson G, Fenstad AM, Gothesen O, Furnes O, et al. Computer-Assisted Compared with Conventional Total Knee Replacement: A Multicenter Parallel-Group Randomized Controlled Trial. *J Bone Joint Surg Am.* 2018;100(15):1265-1274. **5.** Australian Orthopaedic Association National Joint Replacement Registry (AOANJRR). Hip, Knee & Shoulder Arthroplasty: 2019 Annual Report. Adelaide: AOA, 2019. **6.** Data on file with Smith+Nephew. Data from one surgeon experience comparing to KNEE2.6. **7.** Data on file with Smith+Nephew. Maximum Virtual Shift of Marker Position Due to Occlusion. Form 04-143: Revision 06, Released March 30, 2011.