The power of robotics in your skilled hands

The NAVIO Surgical System provides accuracy, flexibility and confidence utilizing real-time imaging (without the need for preoperative CT), hand-held robotics, a portable cart, and multiple partial and total knee implant options in an economically sound platform.
The need for improvements in healthcare

Patients are demanding improved quality of life. Satisfaction with total knees remains in the 82nd percentile and patient demands are only increasing.

Partial knee replacements have historically proven inconsistent, leading to misalignment in 40% of procedures.

Running an effective practice is dependent on reproducible results and improving patient outcomes.

Reduce readmissions and complications.

Why NAVIO°?

The NAVIO Surgical System is designed to aid surgeons in component positioning, ligament balancing and bone preparation – key factors that can drive implant survivorship.

The NAVIO Surgical System does this without requiring a CT scan and allows surgeons, staff and patients the experience of a patient-specific plan without the extra steps associated with other image-based robotic-assisted technologies that can increase cost or delay surgery.

Accuracy

- Real-time imaging
- Handheld robotics
- Portable cart

Flexibility

- Multiple implant options

Confidence

- Economically sound
How does it work?

**Image-free registration**
A 3D model of the patient's cartilage and bone is captured through direct surface mapping, eliminating the need for a CT scan.

**Patient specific planning**
Registration information allows the surgeon to place implant components virtually and predict postoperative joint laxity at the time of surgery without being locked into a plan before verifying the severity of the disease.

**Bone preparation**
Patented NAVIO handheld burring technology removes only the bone determined by the surgeon plan. Bone removal is seen on the NAVIO screen in real-time allowing the surgeon to continually assess patient anatomy against the plan.

**Confirmation**
Postoperative joint laxity is evaluated by collecting data while moving the leg through flexion/extension.
Varus/valgus balance is assessed to confirm the achieved long-leg alignment.
Real-time imaging

- Saves the healthcare system incremental cost of CT
- Spares patient exposure to extra radiation
- Simplifies the surgical process for patients and enables office staff to focus on patient care by eliminating the need to spend time managing payer approvals for preoperative imaging

**Image-based robotics-assisted workflow**

1. Diagnostics
2. CT
3. Pre-op planning
4. Intraop planning and surgery
5. Recovery

**NAVIO image-free robotics-assisted workflow**

1. Diagnostics
2. Intraop planning and surgery
3. Recovery
Handheld robotics

The NAVIO® handpiece offers a unique and flexible approach to knee arthroplasty

The NAVIO handpiece accurately removes bone identified by the surgeon approved, patient-specific plan.

Partial knees
- Bone removal completed exclusively using a robotics-assisted handheld bur

Total knees
Robotics-assisted burring for:
- Accurate alignment of NAVIO specific cutting guides
- Exact modification of bone cuts for varus/valgus, slope, and 0.5mm resection level adjustments

Portable cart
Featuring simple calibration and a footprint designed for use in the surgery center or hospital, NAVIO can be easily moved from OR to OR to support the demand for efficiency needed by orthopaedic programs.
Implant options
Surgeons must assess patients as they are and utilize the best tools at their disposal to treat them

- Multiple implant options for both partial and total knee replacement procedures
- Offers a selection of implant options with a strong clinical heritage including ZUK UNI®, GENESIS II® and LEGION® Primary
- Supports the kinematically focused JOURNEY® II Total Knee

Total Knee
- GENESIS II PS/CR
- JOURNEY II BCS/CR
- LEGION PRIMARY BCS/CR

Partial Knee
- STRIDE
- ZUK UNI
- JOURNEY UNI
- JOURNEY PFJ
Economically sound\textsuperscript{1}

Value is at the forefront of the healthcare marketplace

**NAVIO\textsuperscript{°}** fits into this landscape by:

- A cost effective approach to building a cutting-edge surgical practice, designed to deliver more predictable outcomes
- Removing the cost of a preoperative CT scan for payers and patients
- Distinguishing technology can draw patient interest and grow case volume
To learn more about NAVIO° robotics-assisted orthopaedic surgery or to set up a demonstration, visit www.NAVIOrobotics.com

For detailed device information, including indications for use, contraindications, effects, precautions and warnings, please consult the product’s Instructions for Use (IFU) prior to use. Promotion and advertising of Smith & Nephew products is to be on-label and consistent with authorized indications and intended uses as stated in the product’s IFU. The information presented is solely for informational and educational purposes. Smith & Nephew does not provide medical advice. This information is not intended to serve as medical advice. The information contained herein may not be appropriate for all jurisdictions.

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