



NAVIO[◇]
Surgical System



Robotics-assisted partial knee replacement

The NAVIO[◇] Surgical System Advantage

- CT-free technology
Virtual representation of patient anatomy recreated through direct anatomic mapping and kinematic registration
- Patient-specific surgical plans
Feature-rich intraoperative planning software
- Handheld instrumentation
Precise execution of bone resection within the surgeon defined plan
- Open implant architecture
Multiple leading partial knee implant systems supported for robotic assistance

NAVIO Robotics Unicondylar Knee Replacement

Available for medial and lateral unicondylar knee replacement, the NAVIO UKR application guides the surgeon through image-free registration, intraoperative planning, and accurate bone resection.

CT-free registration

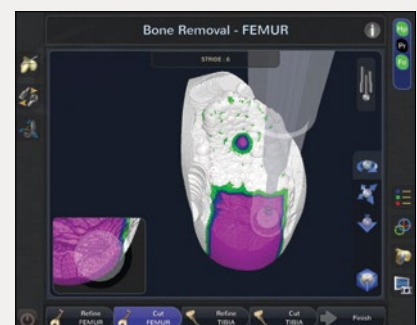
- Direct mapping of articular bone surface
- Soft-tissue measurements for gap balancing

Surgeon controlled planning

- 3D views of transverse, sagittal, and coronal planes
- Solid surface and cross sectional representation of joint anatomy
- Visual representation of component contact path

Robotics-assisted execution

- 3D color map of surgical plan
- Resection enforced within the planned implant boundaries
- Non-restrictive, handheld instrumentation





NAVIO radiographic outcomes*

NAVIO[®] Robotics Patellofemoral Joint Replacement

Available for replacement of the patellofemoral joint, the NAVIO PFJ application guides the surgeon through image-free registration, intraoperative planning, and accurate bone resection.

CT-free registration

- Rapid collection of landmarks
- Direct mapping of trochlear groove and condylar ridges

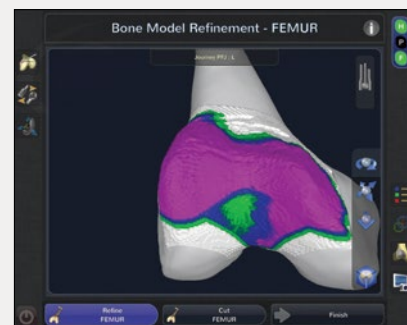
Surgeon controlled planning

- 3D views of transverse, sagittal, and coronal planes
- Cross sectional, articular surface, and cut surface representation of joint anatomy
- Inlay or onlay component planning

Robotics-assisted execution

- 3D color map of surgical plan
- Bone resection enforced within the planned implant boundaries
- Non-restrictive, handheld instrumentation

*These cases may not represent typical surgical outcomes. Every surgery and each patient undergoing knee replacement represents unique sets of circumstances and, therefore, results may vary. For more information on the discussed Smith & Nephew products, including indications for use, contraindications, warnings, precautions and other health and safety information, please see the Instructions for Use (IFU) for that product prior to use.



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To learn more about NAVIO robotics-assisted orthopaedic surgery or to set up a demonstration, visit or contact:

763.452.4910

info@smith&nephew.com

www.smith-nephew.com

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