With VISIONAIRE™ Patient Matched Instrumentation, Smith & Nephew uses the patient's MRI and X-Ray to create customized cutting blocks that save time and instruments in the OR and achieve optimal mechanical axis alignment. This technology can potentially improve the patient's outcome by extending implant longevity and helping the patient regain an active lifestyle.
Benefits
For the surgeon, hospital and patient

Want to spend less time in the OR while potentially improving your patient’s outcome?
Eliminate as many as 22 steps in your surgical procedure with patient match alignment that potentially can achieve a better outcome for your patient.

Want to save time and resources by reducing instrumentation?
Use 2-3 instrument trays instead of six with patient match instrumentation, reducing the cost, time and labor of sterilization and set up.

Want to make the OR more efficient?
Reduce set-up, surgery and clean up time with shorter surgeries and less instrumentation.

Want your patient to regain activity with less risk of certain complications?
Patient specific alignment may lead to better patient outcomes and lowered risk of complications such as DVT due to lack of violation of the IM canal. There are potential risks with any surgery.

Want your patient to spend less time under anesthesia?
Eliminating as many as 22 steps shortens surgery time, meaning your patient needs less time under anesthesia.
Efficiency

VISIONAIRE® Patient Matched Instrumentation eliminates up to 22 steps from a standard total knee arthroplasty while using fewer instruments.

Time

Is there anything more valuable? Shorten procedures by eliminating sizing and alignment surgical steps with patient matched instrumentation. Improve productivity with reduced instrumentation, requiring less set-up and turnover time.

Size

Want the confidence of walking into the OR knowing the size of the implant that will be used? With VISIONAIRE patient matched cutting blocks, precise sizing is determined pre-operatively using both MRI and X-Ray analysis.

Position

This technology achieves accurate rotational and A-P position. All of the commonly-referred anatomical landmarks (AP axis, epicondylar axis) are analyzed pre-operatively, allowing for the proper positioning of the implant for each individual.
Precision

Proven alignment methodology
Unlike other cutting blocks that use alternate methods of alignment, VISIONAIRE® blocks are aligned to the mechanical axis of the knee, the gold standard. Without this orientation to the mechanical axis, components may not achieve optimal performance.

Research shows that malalignment can lead to early failures
- A tibial component with more than 3.0° of varus had increased odds of failure.
- Components placed in varus alignment have a higher rate of loosening and revision when compared with components placed in neutral alignment.
- With VISIONAIRE Patient Matched Instrumentation, surgeons can be reassured that they are implanting components in accordance with the proven standards of total knee arthroplasty.
Success

Success is built in

VISIONAIRE Patient Matched cutting blocks are made from medical grade nylon and are delivered with the size, patient name, left or right knee and implant system clearly labeled. Sterile packed with the option to be flashed, the cutting block matches standard instrumentation for intraoperative changes.

Implant choice

Some companies with this technology only allow for the use of cruciate-retaining implants or limit options to a single system. VISIONAIRE® Patient Matched Instrumentation is available for Smith & Nephew JOURNEY® BCS Bi-Cruciate Stabilized Knee System, GENESIS® II Total Knee System and LEGION® PRIMARY Total Knee System in cruciate retaining and posterior stabilized options.*

*CR implants not available for JOURNEY BCS

Surgeon control

VISIONAIRE Patient Matched Instrumentation is intended to enhance the surgeon OR experience, not to limit the surgeon's decision-making or flexibility. Changes can be made to the preop plan prior to surgery. Intraoperative flexibility is designed into each cutting block, so standard instrumentation can be utilized in the event that bone resection modifications are needed, such as additional distal resection to accommodate for a flexion contracture.
Using your patient’s MRI and X-Ray, Smith & Nephew creates customized cutting blocks that will eliminate up to 22 surgical steps from your surgical procedure. With multiple implant options our patient-matched cutting blocks utilize the mechanical axis for alignment, potentially leading to greater implant longevity. Give your patient the potential to regain an active lifestyle.
References


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