Are you ready to A.C.T. now?

A. Comprehensive mechanical alignment with anatomic precision
B. Potentially fewer complications and reduced related-resource use
C. Potentially shorter operative time and room turnover time

References:

d. Saeed MS, Siegel HJ, Johnson CK. Navigated custom total knee replacement in the first six weeks after surgery. Presented at: 2006 Annual Meeting of the Alabama Orthopaedic Society & Mississippi Orthopaedic Society Annual Meeting; May 2-4, 2006; Sandestin, FL. Average length of stay for single TKA: 3.1 days; Average length of stay for bilateral TKA: 6.2 days.

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Customized surgical solutions with your hospital in mind

Advanced technology from an orthopaedic company you know and trust... isn’t it time to A.C.T.?

The VISIONAIRE® Patient Matched Technology is a process that allows Smith & Nephew to design a set of cutting blocks based on a patient’s own anatomy. An MRI of the patient’s knee plus a full leg radiograph are used to design a femoral and tibial cutting block that the surgeon uses to perform the patient’s total knee arthroplasty.

- The inner shape of the cutting block matches the outer shape of the patient’s distal femur and proximal tibia.
- This hand-in-glove fit allows surgeons to make the precise bone cuts needed to position the knee implant in optimal alignment.
- This technology is available for use with the following Smith & Nephew Total Knee Systems: LEGION® Primary Total Knee System (SPC), JOURNEY® BCS System and GENESIS® II Total Knee System.

A. Comprehensive alignment and greater accuracy of bone cuts

- The VISIONAIRE technology is customized using a full-length view of the leg, based on mechanical axis alignment.

Did you know?
As many as 20% of tibial cuts and 36% of femoral cuts are off by >1.5° and could result in unsatisfactory implant alignment.

B. Fewer complications

- VISIONAIRE Patient Matched Technology is less invasive than conventional total knee arthroplasty because there is no need for an intramedullary (IM) alignment guide.

Did you know?
Eliminating the intramedullary alignment guide reduces blood loss and the need for blood transfusions.

C. Saves time in and out of the operating suite

- Alignment and resection in one step with no assembly required.

Did you know?
May shorten surgery time up to 20 minutes.

Fewer instruments and trays means less non-operative time and room turnover.

Substantially fewer pieces to prep and sterilize

<table>
<thead>
<tr>
<th></th>
<th>No IM Guide</th>
<th>Conventional</th>
</tr>
</thead>
<tbody>
<tr>
<td>Femoral drill and guide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Distal femoral sizing guide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valgus guide bridge</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Valgus alignment guide</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Femoral sizing guide stylus</td>
<td></td>
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<tr>
<td>Tibial resection stylus</td>
<td></td>
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<tr>
<td>Tibial cutting block</td>
<td></td>
<td></td>
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<tr>
<td>Femoral cutting block</td>
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</tbody>
</table>

Recognized cost savings:
Blood products ~$50K annually for a 200-bed hospital.

T. Cost savings

<table>
<thead>
<tr>
<th></th>
<th>Hospital cost of TKA</th>
<th>Hospital cost of TKA with VISIONAIRE® Technology</th>
<th>What changed?</th>
</tr>
</thead>
<tbody>
<tr>
<td>OR equipment (including implants)</td>
<td>$6,597</td>
<td>$7,797</td>
<td>Cost of VISIONAIRE</td>
</tr>
<tr>
<td>Room and board</td>
<td>$3,234**</td>
<td>$2,534**</td>
<td>Reduction in length of stay by one day</td>
</tr>
<tr>
<td>Anesthesia/post-anesthesia care unit</td>
<td>$1,158^</td>
<td>$972^</td>
<td>Reduction in OR time by 20 minutes</td>
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<tr>
<td>Blood products</td>
<td>$772</td>
<td>$534^</td>
<td>Reduction in blood product usage by 30.6%</td>
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<tr>
<td>Other</td>
<td>$2,058</td>
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Total cost $13,019 $13,837
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Did you know?
As many as 20% of tibial cuts and 36% of femoral cuts are off by >1.5° and could result in unsatisfactory implant alignment

• Patient-matched blocks minimize the likelihood of bone cutting errors

Did you know?
Alignment with the mechanical axis is the gold standard for a successful total knee arthroplasty

Over 30% of knee failures are due to complications of misalignment

B. Fewer complications

• VISIONAIRE Patient Matched Technology is less invasive than conventional total knee arthroplasty because there is no need for an intramedullary (IM) alignment guide

Did you know?
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Other costs:

Total cost $13,819 $13,837
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References:


Note: the cost of a hospital day is not constant throughout the length of stay.

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