

Advances in joint replacement

Computer-assisted surgery comes to Baptist Beaumont Hospital

With all the wear and tear we place on our joints, it is no wonder that more and more people are looking into joint replacement surgery, also known as arthroplasty. Tremendous advances have been made in this type of surgery — over the past four decades, total joint replacement surgery has relieved severe pain and restored function in a majority of patients.

If nonsurgical therapies such as anti-inflammatory medication, injections and physical therapy do not relieve your pain and limited movement, joint replacement surgery may be the next step.

Precise, minimally invasive procedures

Now, there is good news for the residents of Southeast Texas! The orthopedic specialists at Baptist Beaumont Hospital are using computer-assisted technology to perform joint replacement procedures with less-invasive surgical techniques and greater levels of accuracy.

Our orthopedic surgeons use the Stryker® Navigation System because it provides them with greater control during the surgery. The system also:

- ▶ provides comprehensive data about the patient's anatomy
- ▶ allows the surgeon to plan more accurately for the surgery with a partial 3-D model of the patient's hip or knee
- ▶ provides the surgeon with the ability to correctly place the new joint during surgery

Armed with this information, the surgeon can make precise adjustments to within a fraction of a degree. Accurate alignment of the joint components is critical to the overall function of the new hip or knee joint and allows for a successful surgical outcome.



What happens during surgery?

During a joint replacement procedure, the surgeon will remove the diseased bone and replace it with new, artificial components, called prostheses or implants. Nowadays, these implants are made of metal, plastic or ceramic (or a combination of materials) and are engineered to replicate a normal, healthy joint.

As the surgeon moves an instrument within the surgical site, the Stryker Navigation System's special infrared trackers calculate its position, and wireless instruments instantaneously transfer this detailed information to a computer in the operating room. The data is then displayed on a computer monitor, creating an interactive model of the anatomy, or a "blueprint," that provides the surgeon with all of the measurements of a patient's unique anatomy.



Explore your options

“The decision to have joint replacement surgery is a big one,” says Wagdy Rizk, MD, an orthopedic surgeon at Beaumont Bone and Joint Institute. It is important to learn about the surgery, what to expect with a new joint, how long the hospital stay will be and the recovery time. “We can answer any questions, offer treatment recommendations and provide detailed information about the procedure,” adds Dr. Rizk. ✱

Break free from joint pain!

For more information, contact Wagdy Rizk, MD, at Beaumont Bone and Joint Institute at **(409) 838-0346** to learn more about joint replacement surgery.



Why choose computer-assisted arthroplastic surgery?

The benefits in choosing a hospital that offers computer-assisted technology for arthroplastic surgery include:

- ✱ less risk of dislocation, which may lead to a second procedure (called a revision)
- ✱ greater stability and range of motion
- ✱ improved overall function of your joint replacement
- ✱ smaller incisions, resulting in less blood loss during surgery
- ✱ faster recovery with less scarring
- ✱ less time spent in post-operative physical rehabilitation