

*An innovative technology
you won't find just anywhere*

The Region's Only Location for Robotic-Assisted Orthopedic Surgery

Total Hip Replacement Surgery

Mako™ robotic-arm assisted total hip replacement is an option for adults suffering with either non-inflammatory or inflammatory degenerative hip joint disease. The Mako™ robotic-arm assisted surgery system may enable surgeons to more accurately plan and place implant components potentially reducing variability within the total hip replacement procedure.

A 3D virtual model of a patient's unique anatomy is created based on a CT scan of the patient's own hip. This virtual model is loaded into the Mako™ system software and is used to create a patient's personalized pre-operative plan. During surgery, the surgeon guides the robotic-arm while preparing the hip socket and positioning the implant based on the patient's pre-operative plan.

The system allows the surgeon to make adjustments to the plan during surgery as needed. When the surgeon prepares the bone for the implant, the robotic-arm system guides the surgeon within the pre-defined area which helps to provide more accurate placement and alignment of the implant.

The following benefits may be realized:

- Increased accuracy and reduced dislocation rates versus manual total hip replacement
- Less blood loss
- Higher function and activity scores compared to manual total hip replacement

To learn more and see if robotic-assisted orthopedic surgery at Lakes Regional Healthcare is right for you, call 712-336-8708.



Partial Knee Replacement Surgery

The Mako™ robotic-arm assisted partial knee replacement procedure is an innovative minimally invasive treatment designed to relieve the pain caused by joint degeneration and potentially offers the following benefits:

- Precise
- Less implant wear and loosening
- Bone sparing
- Smaller incision
- Less scarring
- Reduced blood loss
- Minimal hospitalization
- Rapid recovery
- Better results

Partial knee replacement is an option for adults living with early to mid-stage osteoarthritis that has not progressed to all three compartments of the knee. During the procedure, the diseased portion of the knee is resurfaced, saving as much of the patient's healthy bone and surrounding tissue as possible. An implant is then secured in the joint to allow the knee to move smoothly again.

 **Lakes Regional
Healthcare**

An Avera Partner

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