Salina Regional Health Center

PRESS RELEASE

For Immediate Release
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Mako robotic-arm assisted joint replacement procedures being offered at Salina Regional

(Oct. 11, 2018) – Several patients at Salina Regional Health Center have now undergone robotic-arm assisted total knee, partial knee and total hip replacement surgeries with the Stryker Mako System that became available this summer. The highly advanced robotic technology transforms the way joint replacement surgery is performed enabling surgeons to have a more predictable surgical experience with increased accuracy.

"With Mako, we can provide patients with a more personalized surgical experience based on their diagnosis and anatomy," said Timothy Hawkes, D.O., an orthopedic surgeon with Salina Regional Orthopedic Clinic. "Using a 3D model, Mako allows surgeons to create each patient's surgical plan before entering the operating room. During surgery, we can validate that plan and make any necessary adjustments while guiding the robotic arm to execute that plan. It's exciting to be able to offer this transformative technology across the joint replacement service line to perform total knee, hip and partial knee replacements."

Demand for joint replacements is expected to rise in the next decade. Fifty-two million adults are affected by arthritis, making it the leading cause of disability in the United States. It's estimated that an active and aging population will present more than a 600 percent increase in demand for total knee replacements by the year 2030. Increased accuracy for these surgeries has been shown to improve long term effectiveness and patient satisfaction with the procedures.

Mako total knee surgeries are designed to relieve pain caused by joint degeneration due to osteoarthritis. Through CT-based 3D modeling of bone anatomy, surgeons can use the Mako System to create a personalized surgical plan and identify the implant size, orientation and alignment based on a patient's unique anatomy. The Mako System also enables surgeons to virtually modify the surgical plan once the surgery has begun and assists the surgeon in executing bone resections.

Mako partial knee surgeries are utilized when osteoarthritis is not as advanced. The system allows the surgeon to resurface a portion of the knee and spare healthy bone and ligaments surrounding the joint. Studies have shown robotic-arm assisted partial knee replacement to be two to three times more accurate than manual partial knee replacement procedures.

Mako total hip procedures are an option for patients who suffer from degenerative joint disease of the hip. The technology allows the surgeon to prepare the hip socket and position the implant according to the pre-determined surgical plan.

"We are proud to offer this highly-advanced, precision technology to patients in north central Kansas," said Kelley Drake, Surgical Services nursing director at Salina Regional. "The addition of this technology to our orthopedic service line will benefit growing numbers of people in our area who qualify for joint replacement procedures."

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