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UINTAH BASIN HEALTHCARE

FOR IMMEDIATE RELEASE

PRESS RELEASE

UBH NOW OFFERING NEWEST TECHNOLOGY IN TOTAL KNEE REPLACEMENT WITH STRYKER'S MAKO ROBOTIC-ARM ASSISTED TOTAL KNEE APPLICATION

Innovative Robotic Technology Allows Surgeons to Personalize Procedures to Each Patient

September 15, 2017: Uintah Basin Healthcare (UBH) is the first hospital in the region, and one in only five in the state, to offer Stryker's robotic-arm assisted total knee application for use with its Mako System. This latest advancement in joint replacement surgery transforms the way total knee replacements are performed.

Mako robotic-arm assisted partial knee and total hip surgery was implemented at UBH in February 2016, and adding the ability to provide robotic-arm assisted total knee surgery is very exciting.

Total knee replacements in the United States are expected to increase 673 percent by 2030,ⁱ yet studies have shown that approximately 30 percent of patients are dissatisfied after conventional surgery.ⁱⁱ Mako Total Knee combines Stryker's advanced robotic technology with its clinically proven GetAroundKnee (Triathlon Total Knee System), which has enabled surgeons to have a more predictable surgical experience with increased accuracy during laboratory testing.ⁱⁱⁱ

"Mako is changing the way joint replacement surgeries are performed by providing each patient with a personalized surgical experience based on their specific diagnosis and anatomy," said Dr. Mark Hansen, Orthopedic Surgeon at UBH.

"Using a virtual 3D model, the Mako System allows surgeons to create each patient's surgical plan pre-operatively before entering the operating room. During surgery, the surgeon 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, total hip and partial knee replacements," said Dr. Gordon Olsen, Orthopedic Surgeon at UBH.

The Mako Total Knee application is a knee replacement treatment option designed to relieve the 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 each patient's unique anatomy. The Mako System also enables surgeons to virtually modify the surgical plan intra-operatively and assists the surgeon in executing bone resections.

"We are proud to be the first hospital in the region to offer this highly advanced robotic technology in our area," said James Marshall, CEO of Uintah Basin Healthcare. "This addition to our orthopedic service line further demonstrates our commitment to provide the community with outstanding healthcare."

To learn more about MAKO robotic-arm assisted surgery, schedule a consult with Dr. Gordon Olsen (435.725.7480) or Dr. Mark Hansen (435.725.7460) today.

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Uintah Basin Healthcare is a community not-for-profit healthcare system, serving the Uintah Basin since 1944. Today, Uintah Basin Healthcare is the largest and most comprehensive rural-based independent healthcare system in the state of Utah.

ⁱ Kurtz AAOS. Total knee and hip replacement projections 2030. www.prnewswire.com/news-releases/total-knee-and-hip-replacement-surgery-projections-show-meteoritic-rise-by-2030-55519727.html. Accessed July 4, 2016.

ⁱⁱ Christiaan Keurentjes J, Fiocco M, So-Osman C, et al. Patients with severe radiographic osteoarthritis have better prognosis in physical functioning after hip and knee replacement: a cohort-study. *PLOS One*. 2013; 8(4): 1-8.

ⁱⁱⁱ Hampp EL, Scholl LY, Prieto M, Chang T, Abbasi AZ, Bhowmik-Stoker M, Otto JK, Jacofsky DJ, Mont MA. "Accuracy Assessment of Robotic and Manual TKA in a Cadaveric Model." Robotic-arm assisted total knee arthroplasty demonstrated greater accuracy to plan compared to manual technique. ORS 2017 Annual Meeting. San Diego. Poster No.2412.

