

Approved Mako Total Hip Replacement education information

Mako robotic-arm assisted total hip replacement is an innovative treatment 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 personalized pre-operative plan. The Mako™ system also allows the surgeon to make adjustments to the plan during surgery as needed. When the surgeon prepares the bone for the implant, the Mako robotic-arm system guides the surgeon within the pre-defined area which helps to provide more accurate placement and alignment of the implant.