

## About our program

At Littleton Adventist Hospital, our experienced, board certified orthopedic surgeons specialize in providing the right surgery to meet your needs, and have the knowledge and resources to help you get back in the game.

We are the first hospital in Denver to offer robotic-arm assisted total knee, partial knee, and total hip replacements with the Mako® Robotic-Arm Assisted Surgery System. As part of Littleton Adventist Hospital's precision medicine program, this highly-advanced robotic technology transforms the way joint replacement surgery is performed, enabling surgeons to have a more predictable surgical experience with increased accuracy and better outcomes for our patients.

Our comprehensive joint replacement program includes pre-surgery education and post-surgery rehabilitation to ensure that you achieve the greatest possible success.



*The Mako® Robotic-Arm Assisted Surgery System.*



Littleton Adventist Hospital



[mylittletonhospital.org](http://mylittletonhospital.org)

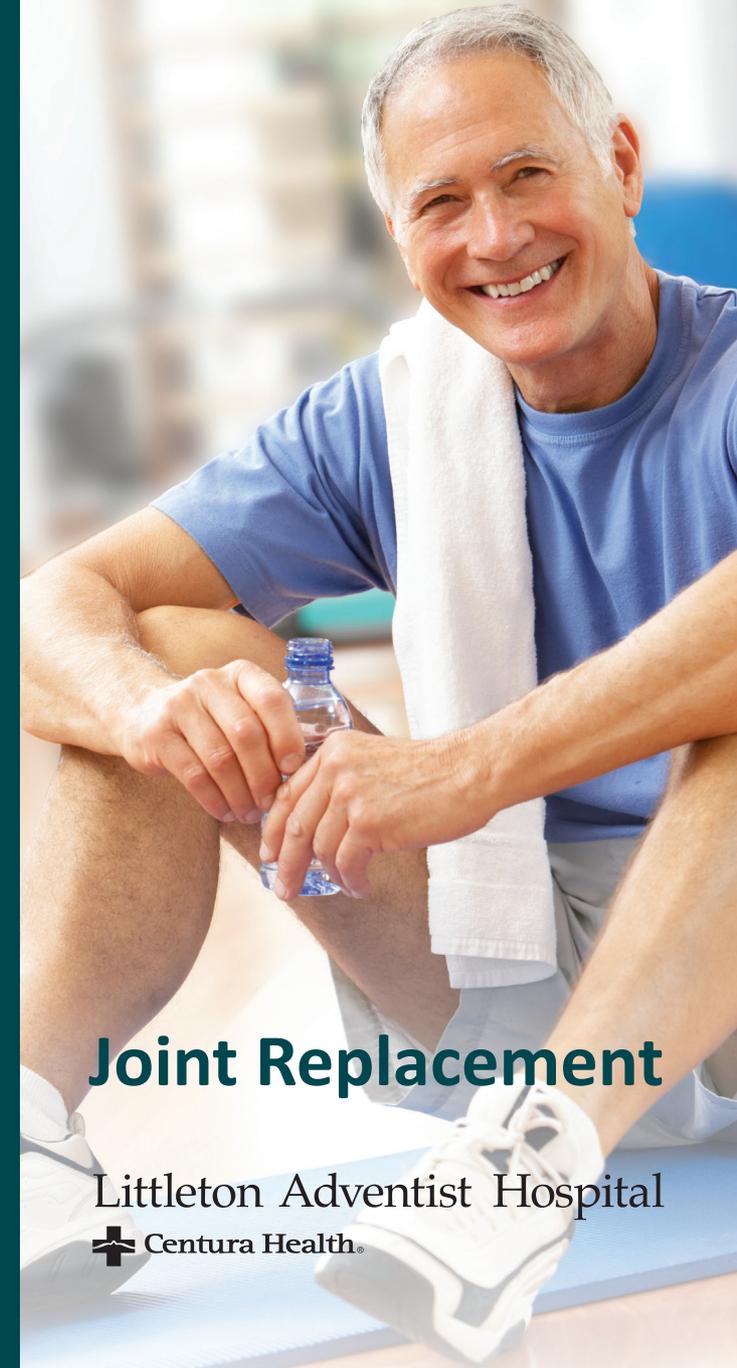
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LAHCR-014

# Getting You Back in the Game.



## Joint Replacement

Littleton Adventist Hospital



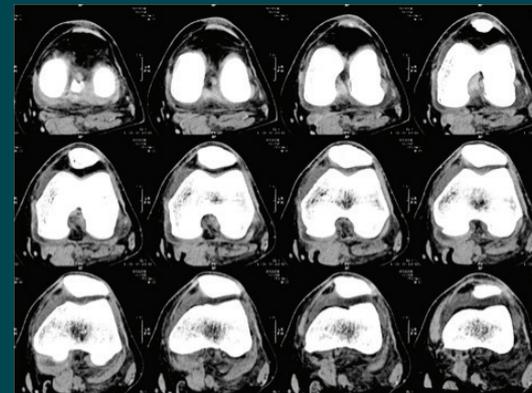
# How Joint Replacement with the Mako<sup>®</sup> Robotic-Arm Assisted Surgery Works

Your joints are involved in almost every activity you do. Movements such as walking, bending, and turning require the use of your hip and knee joints. When these joints become diseased or injured, the resulting pain can severely limit your ability to move and work.

One common cause of joint pain is Osteoarthritis (OA). OA is sometimes called degenerative arthritis because it is a “wearing out” condition involving the breakdown of cartilage and bones. With OA, the cushioning cartilage wears away, making the bones rub against each other, and causing pain, stiffness, and difficulty walking.

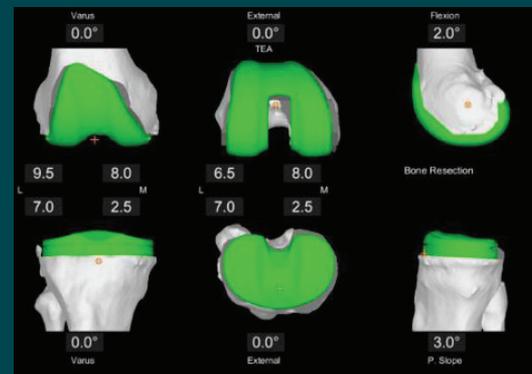
## 1. Have a Plan Personalized for You

It all begins with a CT scan of your joint that is used to generate a 3D virtual model of your unique anatomy. This virtual model is loaded into the Mako<sup>®</sup> system software and is used to create your personalized pre-operative plan.



## 2. In the Operating Room

In the operating room, your surgeon will use Mako<sup>®</sup> to assist in performing your surgery based on your personalized pre-operative plan. The Mako<sup>®</sup> system also allows your surgeon to make adjustments to your plan during surgery as needed. When the surgeon prepares the bone for the implant, the Mako<sup>®</sup> system guides the surgeon within the pre-defined area and prevents the surgeon from moving outside the planned boundaries. This provides more precise placement and alignment of your implant.



## 3. After Surgery

Your surgeon, orthopedic specialized nurses, and physical therapists will set goals with you to get you back on the move. They will closely monitor your condition and progress and adjust your therapy to ensure fastest possible recovery.

