

Approved Mako Partial Knee Replacement education information

The Mako robotic-arm assisted partial knee replacement procedure is designed to relieve the pain caused by joint degeneration and potentially offers the following benefits compared to manual partial knee replacement:

- Improved surgical outcomes
- Less implant wear and loosening
- Bone sparing
- Smaller incision
- Less scarring
- Minimal hospitalization
- Rapid recovery

Mako robotic-arm assisted partial knee replacement is an innovative minimally invasive treatment option for adults living with early to mid-stage osteoarthritis or OA that has not progressed to all three compartments of the knee. It is powered by the Mako robotic-arm assisted surgery system, which helps provide more accurate placement and alignment of a patient's implant.

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. Mako™ Partial Knee Replacement may:

- Facilitate ideal implant positioning that can result in a more natural feeling knee following surgery.¹
- Result in a more rapid recovery and shorter hospital stay than traditional knee replacement surgery
- Promote a rapid relief from pain and return to daily activities²

1. Plate JF, Mofi di A, Mannava S, Smith BP, et al. Achieving Accurate Ligament balancing Using Robotic-Assisted Unicompartmental Knee Arthroplasty. *Advances in Orthopedics* 2013(2013): 837167.

2. Blyth M, Jones B, MacLean A, Anthony I, Rowe P. Accuracy of UKA implant positioning and early clinical outcomes in a RCT comparing robotic assisted and manual surgery. 13th Annual CAOS Meeting, June 12-15, 2013, Orlando, FL, USA.