



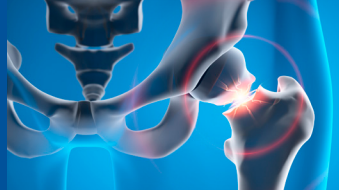
Duke Joint Replacement Program

Hip and Knee Arthroplasty

Advanced joint replacement driven by science, expertise, and innovation



Outpatient total joint arthroplasty for optimized outcomes through enhanced recovery protocols



High-volume knee and hip replacement program led by fellowship-trained surgeons

Overview

We provide comprehensive evaluation and management for patients with hip or knee pain related to degenerative joint disease, prior injury, or fracture. Our multidisciplinary team offers timely assessment, advanced imaging, and evidence-based treatment pathways to support improved function and mobility.

As leaders in joint reconstruction research, our surgeons advance techniques, perioperative protocols, and implant technologies to improve patient function, reduce complications, and extend implant longevity.

Our high-volume arthroplasty team performs thousands of hip and knee replacements each year, using standardized, outcomes-driven protocols that promote rapid recovery and reduce postoperative pain. Supported by one of the most experienced orthopaedic care teams in the region, we deliver consistent, high-quality outcomes for patients requiring primary total joint, complex reconstruction, or evaluation of persistent dysfunction after previous surgery.

Why Refer to Duke

Our team works with you to diagnose and manage care for your patients and offer options, including surgery when necessary, to preserve or restore mobility for adult patients of all ages.

You can refer your adult patients when they may benefit from our care, which offers:

Nonsurgical treatment options, including:

- The Duke Joint Health Program for patients with chronic hip or knee pain, offering personalized care plans including physical activity and exercise, weight management, nutrition, functional training, sleep quality, and emotional well-being
- Injections, including steroids and gel blocks
- Targeted exercise plans and physical therapy
- Anti-inflammatory medications and supplements

Leading surgical techniques for total, partial, and revision replacements, including muscle sparing techniques:

- Anterior-based muscle-sparing (ABMS) for total hip arthroplasty
- Direct anterior approach for total hip arthroplasty
- Superior Transverse Anatomic Reconstruction (STAR) approach for total hip replacement
- Subvastus muscle sparing approach for total knee arthroplasty
- Kinematic alignment in total knee arthroplasty, which aims to restore the patient's native joint line
- Robotic-assisted surgery
- Custom 3D-printed implants tailored to the patient's unique anatomy for improved function to restore the natural range of motion and stability for the joint
- Augmented reality for more precise implant placement

To refer a patient, log in to Duke MedLink or call 919-613-7797.



DukeHealth