

Robotic Technology that improves outcomes

At Dameron Hospital, we're committed to delivering the best possible surgical outcomes. That's why we're proud to offer robotic knee replacement using the VELYS Robotic-Assisted Solution, one of the most advanced technologies in joint replacement today.

The Velys robot allows our orthopedic surgeons to perform knee replacements with more precision and accuracy, allowing you to get back on your feet more quickly and participating in the activities you love.



About the Dameron Hospital Joint Replacement Program

We provide comprehensive, multidisciplinary care from a team of orthopedic surgeons, physician assistants, nurses, physical and occupational therapists, social workers, care coordinators and discharge planners. We combine state-of-the-art technology with a collaborative approach to help you recover and return to function quickly.

Our hospital has achieved national recognition in knee replacements including the prestigious Blue Distinction as a Knee and Hip Replacement Center of Excellence from Blue Shield and as a Top Performer for Quality Metrics by The Joint Commission for offering the highest quality of care to our patients.

**DAMERON
HOSPITAL**

Managed by:

AdventistHealth

Dameron Hospital

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DameronHospital.org

Robotic Total Knee Replacement Surgery



**DAMERON
HOSPITAL**

Managed by:

AdventistHealth

What happens during robotic total knee replacement?

Before surgery, your surgeon will perform a physical examination and take X-rays to decide whether you're a good candidate for a robotic knee replacement. During a total knee replacement, your surgeon shaves off the damaged joint surfaces and places durable implants to recreate the knee joint.

Our surgeons use the VELYS robot to achieve a precise component size and placement, an accurate limb alignment and a stable knee joint.

During surgery:

1. Your surgeon captures several data points about your knee, including your overall alignment, bone structure and range of motion.
2. The VELYS robot uses these data points to create a personalized surgical plan.
3. After confirming the surgical plan, your surgeon uses the Velys robot to perform bone cuts with accuracy and precision.
4. Your surgeon then chooses and places the final implants according to your knee anatomy, alignment and stability.

Benefits of the robotic technique

The VELYS robot is a leading-edge technology in joint replacement surgery. It offers our patients:

- Improved range of motion and knee stability
- Less radiation exposure, due to no need for a preoperative CT scans
- Lower costs, due to no need for a preoperative MRI or CT scan
- Minimized pain, with less reliance on pain medication
- More accurate placement of the knee implants
- Quicker recovery
- Reduced risk of repeat surgery
- Shorter operating times and hospital stays

Questions to ask your surgeon

Different surgical techniques have different pros and cons. Before your knee replacement surgery, you may ask your care team:

- Am I a candidate for robotic knee surgery?
- Do I have any nonsurgical treatment options?
- How long will the procedure take?
- How quickly can I return to my usual activities?
- What are the pros and cons of using the VELYS robot compared to traditional approaches?
- What type of anesthesia do you use?
- When will I be able to return home?

