

# Robotic Surgery



**“Robotic Precision”**

## What is robotic surgery?

The surgical robot is an operating- room machine completely controlled by a skilled surgeon who manipulates mechanical arms from a console near the patient's bed. The procedure uses much smaller incisions than traditional "open" surgery, which helps reduce blood loss and postoperative recovery times.



## How does robotic surgery work?

Working from a special console in the operating room, a surgeon operates several precision-guided robotic arms that hold and manipulate miniaturized instruments that are inserted through keyhole-sized incisions in the patient. A small video camera, inserted through another tiny incision, provides surgeons with a magnified 3-D image of the operating site. This view allows doctors to see and avoid surrounding nerves and muscles. The robotic arms, with their ability to rotate 360-degrees, enable surgical instruments to be moved with greater precision, flexibility and range of motion than done in standard minimally invasive laparoscopy.

Most procedures take two to three hours under general anesthesia. Patients typically experience only minimal blood loss and blood transfusions are rarely needed. Depending on the condition being treated, patients often only spend few nights in the hospital and are usually discharged as soon as their laboratory tests are acceptable, pain is controlled and they are able to retain liquids.



## What are the benefits to the patients?

Robotic surgery enables surgeons to perform a more precise, less invasive operation than conventional “open” surgery. This offers several potential benefits, including:

- Significantly less pain
- Less blood loss
- Less risk of infection
- Less scarring
- Shorter hospital stay
- Quicker recovery time



## What are the criteria for robotic surgery?

The decision to surgically treat a patient involves many considerations. Not every patient is an appropriate candidate for a minimally invasive procedure. Our surgeons work closely with every patient, discussing treatment options and helping them decide on the best course of action, which may include robotic surgery.

## What kind of operations can be performed using robotic surgery?

Robotic surgery is used for performing surgery in the following areas:

- Robotic gastric surgery
- Robotic colorectal cancer surgery
- Robotic pancreatic surgery
- Robotic liver surgery
- Robotic bowel surgery
- Robotic rectopexy
- Robotic hernia repair



## What are the risks of robotic surgery?

Any surgery is associated with certain risks such as complications related to anesthesia and bleeding or infectious complications. The risk of any operation is determined in part by the nature of the specific operation. An individual's general health and other medical conditions are also factors that affect the risk of any operation. Preoperative assessment of a patient's overall health is part of the standard surgical evaluation. You should discuss with your surgeon your individual risk for any operation.



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