

ROBOTIC SURGERY

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What is Robotic Surgery?

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What are the benefits to robotic surgery?

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What procedures can be done with robotic surgery?

Robotic surgery, or robot-assisted laparoscopic surgery, allows surgeons to perform minimally invasive surgery with more precision, flexibility and control.

Who performs robotic surgery?



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At Cleveland Clinic Abu Dhabi, robotic surgery is currently carried out with the use of the da Vinci™ surgical system, which consists of a 3D camera and four, thin robotic arms with surgical instruments attached. The surgeon operates by controlling the arms from a computer console using hand and foot inputs, whilst watching a real-time magnified, high-definition view of the surgical area on screen.

What are the benefits to robotic surgery?

Robotic surgery enables surgeons to perform the most delicate and complex procedures through very small incisions. Using the robotic system, the surgeon is able to have better visualization through a highly magnified, high resolution of the operating procedure leading to a more precise surgery.

Some of the benefits for patients include:

- Less pain
- Less blood loss
- Smaller scars
- Shorter recovery time
- Reduced risk of infection
- Fewer complications that can arise from surgery
- Often better clinical outcomes

What procedures can be done with robotic surgery?

Robotic surgery is used for a wide range of surgical procedures which previously would have involved larger incisions and open surgery.

Our surgeons at Cleveland Clinic Abu Dhabi utilize robotic surgery at the following institutes:

- [Heart and Vascular Institute](#)
- [Digestive Disease Institute](#)
 - Benign and malignant abdominal surgery
 - [Bariatric surgeries](#)
 - [Colorectal surgeries](#)
- [Surgical Subspecialties Institute](#)
 - [Gynecological surgery](#)
 - [Urological surgery](#)

Who performs robotic surgery?

We know some patients are concerned about the idea of robotic surgery, and there is a common misperception that a robot is performing the surgery without human intervention.

However, your surgeon is in control the whole time, performing the surgery via the robotic system, where their hand movements are translated into ultra-precise movement of the instruments

We are a pioneer of robotic surgery in the UAE having utilized this system for complex benign and malignant procedures since 2015. Only Cleveland Clinic Abu Dhabi robotic surgery trained surgeons are certified to perform these surgeries at our hospital.

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