

# Facing a Hernia Repair?

Learn about minimally invasive  
*da Vinci*® Surgery



*da Vinci*.Surgery

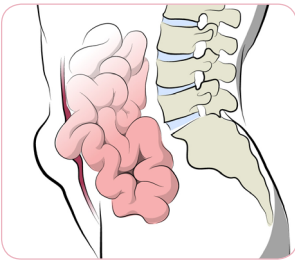
# The Surgery:

## Hernia Repair Surgery

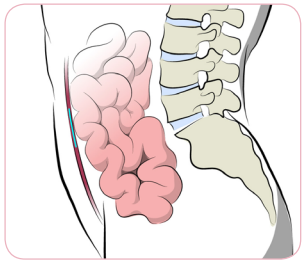
A ventral hernia is located in the abdomen and may appear at an incision site anytime after surgery (incisional hernia). An inguinal hernia occurs in the groin area.<sup>1</sup>

Your doctor may suggest lifestyle changes to ease your symptoms, but surgery is often the only way to truly repair a hernia.<sup>2</sup> If a child has a ventral hernia that does not heal on its own by age 5, his/her doctor may suggest surgery.<sup>2</sup>

During hernia repair surgery, an incision is made near the site of the hernia. The hernia is usually repaired with



**Cross Section of a  
Ventral Hernia**



**Cross Section of a  
Repaired Hernia**



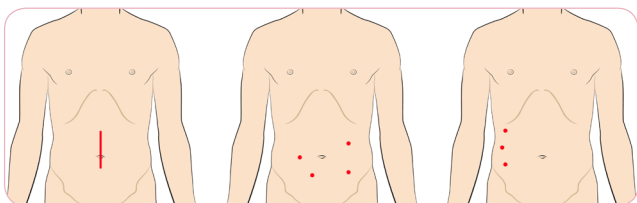
mesh by stitching, stapling or clipping it to the muscle around the hernia site. The hernia site can also be sewn directly together.

Hernia repair can be done using traditional open surgery or minimally invasive surgery.

**Open Surgery:** With open surgery, a large incision is made in your abdomen that allows your surgeon's hands to reach and touch your organs.

**Minimally Invasive Surgery:** Minimally invasive surgery is also known as laparoscopy. It is done through a few small incisions using long, thin surgical instruments and a tiny camera. The camera takes images inside your body and sends them to a video screen in the operating room to guide doctors during surgery.

## Incisional Hernia

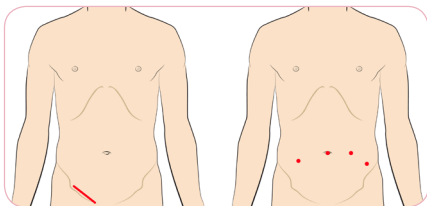


Open Surgery  
Incision

Laparoscopy  
Incisions

*da Vinci* Surgery

## Inguinal Hernia



Open Surgery  
Incision

*da Vinci* Surgery &  
Laparoscopy Incisions

# ***da Vinci* Surgery:**

## A Minimally Invasive Surgical Option

*da Vinci* Surgery is another minimally invasive surgical option for adult patients facing abdominal hernia surgery.

The *da Vinci* System features a magnified 3D HD vision system and special wristed instruments that bend and rotate far greater than the human hand. *da Vinci* technology enables your surgeon to operate with enhanced vision, precision, and control.

### **Early clinical data suggests:**

*da Vinci* Ventral Hernia Surgery offers the following potential benefits:

- › Low rate of pain<sup>3,4</sup>
- › Low rate of the hernia returning<sup>3,5</sup>
- › Low rate of surgeon switching to open surgery<sup>3,4</sup>
- › Short hospital stay<sup>4,5</sup>

Your doctor controls the *da Vinci* System, which translates his or her hand movements into smaller, precise movements of tiny instruments inside your body.

**The *da Vinci* System has brought minimally invasive surgery to more than 3 million patients worldwide.**

**Risks & Considerations Related to Hernia Repair (ventral, incisional, umbilical, inguinal):** recurrence, bowel injury, infection of mesh, urinary retention. For inguinal hernia repair: testicular injury.

### **Important Information for Patients:**

Serious complications may occur in any surgery, including *da Vinci*<sup>®</sup> Surgery, up to and including death. Risks include, but are not limited to, injury to tissues and organs and conversion to other surgical techniques. If your doctor needs to convert the surgery to another surgical technique, this could result in a longer operative time, additional time under anesthesia, additional or larger incisions and/or increased complications. Individual surgical results may vary. Patients who are not candidates for non-robotic minimally invasive surgery are also not candidates for *da Vinci* Surgery. Patients should talk to their doctor to decide if *da Vinci* Surgery is right for them. Patients and doctors should review all available information on non-surgical and surgical options in order to make an informed decision. Please also refer to [www.daVinciSurgery.com/Safety](http://www.daVinciSurgery.com/Safety) for Important Safety Information.

## Your doctor is one of a growing number of surgeons worldwide offering *da Vinci*<sup>®</sup> Surgery.

For more information and to find a *da Vinci* surgeon near you, visit:  
[www.daVinciSurgery.com](http://www.daVinciSurgery.com)

<sup>1</sup> National Institutes of Health. Hernia. December 2014. <http://www.nlm.nih.gov/medlineplus/hernia.html>. <sup>2</sup> National Institutes of Health. Hernia. December 2013. <http://www.nlm.nih.gov/medlineplus/ency/article/000960.htm>. <sup>3</sup> Tayar C, Karoui M, Cherqui D, Fagniez PL. Robot-assisted laparoscopic mesh repair of incisional hernias with exclusive intracorporeal suturing: a pilot study. *Surg Endosc*. 2007 Oct;21(10):1786-9. Epub 2007 Mar 13. <sup>4</sup> Allison N, Tieu K, Snyder B, Pigazzi A, Wilson E. Technical feasibility of robot-assisted ventral hernia repair. *World J Surg*. 2012 Feb;36(2):447-52. doi: 10.1007/s00268-011-1389-8. <sup>5</sup> Gonzalez, A. M., et al. (2014). "Laparoscopic ventral hernia repair with primary closure versus no primary closure of the defect: potential benefits of the robotic technology." *International of Medical Robots and Computer Assisted Surgery*.