Single-Site Robotic-Assisted Surgery

Single-site robotic-assisted surgery is the fastest growing advanced surgical technique at Inova Loudoun Hospital, currently utilized for Cholecystectomy and Hysterectomy in which your surgeon performs the entire operation through a single incision in the belly button. The end result: virtually scarless surgery, providing you with one of the most cosmetically appealing results of any surgical approach.

Fluorescence Imaging Vision System (Firefly™)

The da Vinci® Fluorescence Imaging Vision System, or Firefly™, has integrated fluorescence imaging capability providing real-time, image-guided identification of key anatomical landmarks using near-infrared technology. This technology provides the surgeon with a clear delineation between healthy and unhealthy tissues.

National Robotic Training Epicenter at Inova Loudoun Hospital

In July 2014, Inova Loudoun Hospital's da Vinci® robotic-assisted surgical program became one of fewer than 20 general surgery programs in the United States that serves as a national education and training site for surgeons. This comprehensive program offers surgeons and clinical staff the opportunity to learn and view first-hand the highly-efficient and successful program that continues to grow at Inova Loudoun Hospital.

da Vinci Surgery
Teaching Center of Excellence

For more information about our surgeons, surgical procedures, and facility please visit ***inova.org/ILHdavinci*** *or call* ***703.858.8558****.*

Minimally Invasive Robotic-Assisted Surgery

Inova Loudoun Hospital

INOVA®

INOVA®

G33485/10-14/300

Minimally Invasive Robotic-Assisted Surgery

The robotic-assisted surgical program at Inova is a state-of-the-art alternative to both traditional open surgery and conventional minimally invasive surgery.

Inova Loudoun Hospital has offered minimally invasive robotic-assisted surgery since 2009, when the first da Vinci® surgical system was purchased as a surgical option for urology patients. Within three years, ILH expanded the surgical options to include general and gynecological procedures.

In 2012, Inova Loudoun Hospital upgraded and added two da Vinci® Si Surgical Systems to support patient and surgeon needs..

What is da Vinci® Minimally Invasive Surgery?

The da Vinci® Surgical System is an advanced, robotic technology tool utilized by the surgeon during your operation. It does not act on its own, its movements are controlled by your surgeon who is seated at a computer console in the operating room.

The da Vinci® Si Surgical System has a 3D high definition (3D-HD) vision system, special instruments and computer software that allows your surgeon to operate with enhanced vision, precision, dexterity and control. The 3D-HD image can be magnified up to 10 times so your surgeon has a close-up view of the area he or she is operating on.

The da Vinci® instruments have mechanical wrists that bend and rotate to mimic the movements of the human wrist – allowing your surgeon to make small, precise movements inside your body.

What Are The Benefits of Robotic-Assisted Surgery Over Other Surgical Options?

- Shorter hospital stay
- Less blood loss
- Fewer complications
- Less need for narcotic pain medicine
- Faster recovery
- Smaller incisions resulting in minimal scarring

What Types of Surgery Are Performed with Robotic-Assisted Surgery at Inova Loudoun Hospital?

General Surgery

- Hernia Repair
- Cholecystectomy (Gallbladder removal)
- Bowel Surgery (Colon resection)
- Nissen (Anti-reflux procedure)
- Abdominal Exploration, Lysis of adhesions

Gynecology Surgery

- Hysterectomy (Uterus removal)
- Myomectomy (Fibroid removal)
- Oopherectomy (Ovary removal)

Urology and Urogynecologic Surgery

- Partial Nephrectomy (Kidney mass removal)
- Nephrectomy (Kidney removal)
- Prostatectomy (Prostrate removal)
- Cystectomy (Bladder removal)
- Pyeloplasty (Renal pelvis repair)
- Sacrocolpopexy (Prolapse repair)
- Adrenalectomy (Adrenal removal)

For more information visit inova.org/ILHdavinci or call 703.858.8558.