

# ROBOTIC SURGERY

IT'S SOMETHING WE DO EVERY DAY.

**NF** THE  
ROBOTICS CENTER

NORTH FLORIDA REGIONAL HEALTHCARE

We are with you **for life.**



## Our Program

At The Robotics Center of North Florida Regional Healthcare, expert physicians use advanced robotic technology to heal their patients in a better way. It means less pain, smaller incisions, less time in the hospital and less time away from home and work.

We like to remind our community that Robotic Surgery is something we do every day because we like to help you get back to doing what you do every day.

Robotic surgery at North Florida Regional is a natural progression from what started years earlier when physicians began offering surgical patients a minimally-invasive approach through laparoscopic surgery. Physicians in gynecology, urology and general surgery are now part of The Robotics Center where a commitment to minimally-invasive surgery using robotics technology is strong and growing.

As you will see in this brochure, our 3 da Vinci surgical robots are only one part of our program. We have invested in robotic technology that benefits patients in a wide variety of service lines. We are a leader in North Central Florida with a large-volume robotics program where expert physicians are committed to excellent outcomes in a safe environment that patients rely on.

The number of robotic procedures performed in any facility is an indicator of expertise and – when it comes to the level of quality you can expect – it speaks volumes.

# Our Robots

## da Vinci® Surgical Systems

The Robotics Center of North Florida Regional Healthcare has three surgical robots. The newest is named the 'Xi' - it's the most advanced of the da Vinci® Robotic Systems. The Xi joins two Si da Vinci® Surgical Systems in our high volume robotic surgery program. The da Vinci systems are so precise, they take minimally-invasive surgery to a whole new level.

For patients eligible for robotic surgery, potential benefits include the following:

- Smaller Incisions
- Less Bleeding
- Fewer Complications
- Shorter Hospital Stay
- Shorter Recovery

Our robotic surgeons use this advanced technology to heal patients in a better way. It means less pain, smaller incisions, less time in the hospital and less time away from home and work.

Learn more at [www.RoboticsCenter.org](http://www.RoboticsCenter.org).



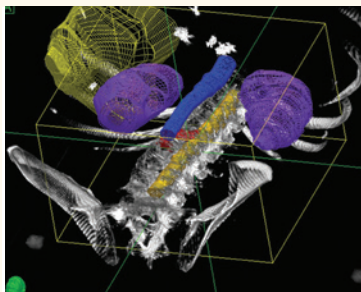
# Our Robots

## The Cyberknife

Robotic radiosurgery is precise, painless and non-invasive. We are proud to be the first hospital in North Florida to offer the CyberKnife – revolutionary technology to treat malignant and benign tumors anywhere in the body. This radiosurgery tool allows us to treat patients who are not candidates for surgery, conventional radiation or those who have maxed out their chemotherapy.

The CyberKnife’s ability to irradiate only the tumor while protecting nearby healthy tissue makes it possible to treat lesions that might otherwise be considered inoperable or untreatable. More information is available online.

Learn more at [www.cancergainesville.com](http://www.cancergainesville.com).



# Our Robots

## Robot-Assisted Devices

In addition to da Vinci Surgical Systems and the CyberKnife, robot assisted devices are used by physicians and staff at North Florida Regional Medical Center. These devices increase precision and accuracy of surgeons' work and deliver correspondingly better outcomes for our patients.

## Orthopedic Navigation

Robot assisted devices for joint replacement surgery include MAKOplasty and the ExactechGPS Systems. MAKOplasty is available for patients having partial knee replacement or total hip replacement. ExactechGPS is available for patients having total knee replacement. While the systems are unique, they both provide real-time visual guidance for advanced accuracy that enables precise alignment and placement of implants. The accuracy made possible by these robot-assisted devices leads to longer-lasting implants.



## Spinal Imaging & Navigation

Robot assisted devices within the neuroscience service line include the O-Arm and Stealth Station. O-Arm Imaging Technology provides multi-dimensional, surgical imaging for complex spine surgeries and real-time, 3-D images in the operating room. StealthStation surgical navigation allows surgeons to track their instruments precisely in relation to patient anatomy. These systems work together to provide real-time visual guidance that may improve clinical outcomes by enabling surgeons to perform more precise procedures.

## LandmarX® Element ENT Image Guidance

The LandmarX® Element ENT Image Guidance System (IGS) provides advanced technology to support the essential IGS functions an ENT surgeon needs for Functional Endoscopic Sinus Surgery (FESS). During surgery, the system tracks the position of the instruments in or on the patient anatomy and continuously updates the instrument position on these images. Uninterrupted navigation assists the surgeon in performing precise and accurate procedures.

## Our Procedures

Robotic surgery using our three da Vinci Surgical System robots is performed by robotic surgeons in gynecology, urologic gynecology, gynecologic oncology, urology and general surgery. Procedures available include the following:

### **Bariatric Procedures**

Gastric Sleeve or Sleeve Gastrectomy is the newest of weight loss surgeries and is growing in popularity. This minimally-invasive option removes all but a thin vertical 'sleeve' of stomach. Unlike the Lap Band, no adjustments are needed after surgery, and patients tend to lose weight more quickly. Gastric Bypass or Roux-en-Y Gastric Bypass is the most common gastric bypass procedure performed. It combines gastric restriction with malabsorption, reducing food intake and absorption of nutrients.

### **Colon Surgery**

Colon surgery is performed for patients with colon cancer or conditions such as Crohn's Disease or Diverticulitis. Robotic technology can be incorporated for patients having a Right Hemicolectomy, a Sigmoidectomy, as well as Low Anterior Resection and Abdominoperineal Resection.

### **Cystectomy**

A cystectomy is often the recommended treatment for bladder cancer. The da Vinci Surgical System imitates a surgeon's movements and enhances their precision, offering bladder

cancer patients an effective surgical and less problematic post-surgical outcome. For some patients with bladder cancer, the CyberKnife may also be an option.

### **Gynecologic Oncology Procedures**

Women who have or may have a gynecologic malignancy such as cervical, endometrial, ovarian, vaginal or vulvar cancer are cared for by physicians who specialize in gynecologic oncology. While not all gynecologic cancers requiring surgery can be treated with a robotic minimally-invasive approach, many can. When gynecologic cancer is detected at an early stage, surgical removal of the uterus is often recommended. Care provided by physicians in gynecologic oncology includes treatment of pelvic masses and treatment of gynecologic malignancies, including cervical, endometrial, ovarian, vaginal and vulvar cancer. When it is possible to perform needed surgery robotically, this offers women significant advantages.

### **Hernia Repair**

Surgeries to repair hernias have been around for a long time. This gave physicians time to perfect traditional processes and begin to incorporate new tools such as robotic surgery. Hernia repair surgeries that incorporate robotic technology for patients include Inguinal Hernia, Ventral Hernia and Paraesophageal Hernia/Nissen.

### **Hysterectomy**

Surgical removal of the uterus and/or other reproductive organs. Hysterectomy may be recommended to treat a range of gynecologic conditions, such as chronic pelvic pain or abnormal bleeding.

### **Myomectomy**

Surgical removal of uterine fibroids. A uterine fibroid is a common type of benign or non-cancerous tumor that develops inside the wall of the uterus. A myomectomy removes those fibroids in a way that preserves the uterus and may be recommended for women who wish to become pregnant.

### **Nephrectomy**

Urinary obstruction is a common condition that affects the kidneys. Minimally invasive robotic surgical procedures are available to prevent serious side effects such as inflammation, kidney stones and eventual damage to the kidney, the organ that filters waste from the blood. For patients with kidney cancer, surgical removal of all or part of the kidney may be recommended. Whether a patient needs a partial or simple nephrectomy, the procedure can be performed minimally invasively using the da Vinci® Surgical System or the CyberKnife.

### **Oophorectomy**

Surgery to remove the ovaries – the almond-shaped organs on each side of the uterus. Oophorectomy is performed alone in some cases, but it is often done as part of a larger surgery to remove the uterus in women who have undergone menopause.

### **Ovarian Cystectomy**

A treatment option that removes cysts with the ovary intact. An ovarian cystectomy procedure removes cysts from an affected ovary and may be required if a cyst affects fertility, causes pain or bleeding, doesn't go away after several periods, grows larger over several cycles or shows signs of being malignant.

### **Prostatectomy**

Surgical removal of the prostate, a gland in the male reproductive system located just below the bladder, is often recommended for men diagnosed with prostate cancer. This treatment can be performed in less invasive ways using the da Vinci® Surgical System or the CyberKnife.

### **Sacrocolpopexy**

Surgery for uterine or vaginal vault prolapse. When vaginal or uterine prolapse happens, tissues in these areas slip or fall from their original positions. This happens to many women each year who seek a surgical solution called sacrocolpopexy.



A part of North Florida Regional Healthcare, The Robotics Center is located on the campus of North Florida Regional Medical Center. More than 4,000 robotic surgeries have been performed here since our program began. For more information, please call or visit us online.

[www.RoboticsCenter.org](http://www.RoboticsCenter.org)

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