



Banner Health

North Colorado
Medical Center®



da Vinci® Robotic Surgical System

North Colorado Medical Center (NCMC) is one of several Banner Health locations, that have a special robotic surgery technology program. Using Intuitive Surgical's da Vinci® Surgical System, NCMC's medical teams use robotics designed to extend the benefits of minimally invasive procedures. The robot provides surgeons with all the clinical and technological capabilities of traditional open surgery while enabling them to operate through tiny incisions.

da Vinci® Robotic Surgical System

By dramatically enhancing visualization, precision, control, and dexterity, the da Vinci® System overcomes the limitations of traditional laparoscopic technology, helping physicians to perform complex surgery in a manner never before experienced. With enhanced surgical capabilities, physicians are now able to extend the benefits of minimally invasive surgery to the broadest possible range of patients.

The da Vinci® Surgical System consists of an ergonomically designed surgeon's console, a patient-side cart with four interactive robotic arms, a high-performance vision system and proprietary EndoWrist®

Instruments. Powered by state-of-the-art robotic technology, the surgeon's hand movements are scaled, filtered, and seamlessly translated into precise movements of the EndoWrist® Instruments.

The surgical system cannot be programmed, nor can it make decisions on its own. The da Vinci® System requires that every surgical maneuver be performed with direct input from the surgeon.

The da Vinci® Surgical System has been successfully used in tens of thousands of minimally invasive procedures worldwide.

Benefits of Robotic Surgery

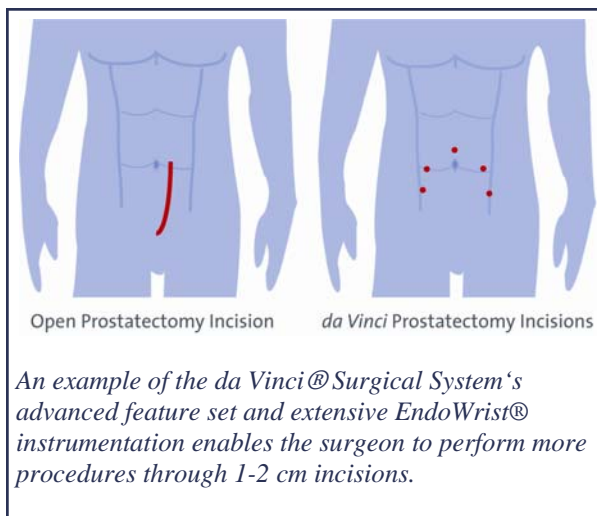
The da Vinci® Surgical System allows patients who once faced several weeks in recovery following surgery, to be back on their feet within days. Through an advanced technology that creates a less invasive approach to surgery, patients may experience:

- Reduced trauma to the body
- Reduced blood loss and need for transfusions
- Less post-operative pain and discomfort
- Less risk of infection

- Shorter hospital stay
- Faster recovery and return to normal daily activities
- Less scarring

The da Vinci® Surgical System is improving patient experiences and outcomes by fundamentally changing surgery in three ways:

1. *Simplifying many existing minimally invasive surgical procedures*—many surgical laparoscopic procedures may be performed more quickly and easily using the da Vinci® Surgical System because of the increased clinical capability while maintaining the same "look and feel" of open surgery.
2. *Making difficult minimally invasive surgical operations routine*—the da Vinci® Surgical System allows more surgeons to perform complex procedures using a minimally invasive approach, routinely, and with confidence.
3. *Making new minimally invasive surgical procedures possible*—the da Vinci® Surgical System's advanced feature set and extensive EndoWrist® instrumentation enables the surgeon to perform more procedures through 1-2 cm incisions.



An example of the da Vinci® Surgical System's advanced feature set and extensive EndoWrist® instrumentation enables the surgeon to perform more procedures through 1-2 cm incisions.

Procedures

Currently, North Colorado Medical Center is performing the following procedure with the da Vinci® Surgical System:

- Gastric bypass and LAP-BAND® Adjustable Gastric Banding System (bariatric surgery)
- Hysterectomy and Myomectomy (gynecologic procedures)
- Prostatectomy (prostate procedures)

Looking Towards the Future

The da Vinci® S™ uses HD video technology, high-speed networking, and image guidance systems to enhance the patient experience with minimally invasive surgery at North Colorado Medical Center.

North Colorado Medical Center's commitment to providing the latest technology allows patients to experience the highest quality of surgical care.