

Urologic Surgical Associates of Delaware

Specializing in Robotic Surgery

Robotic Surgery Overview

[Da Vinci](#) Robotic Surgery (also known as Robotic Assisted Surgery) has recently gained popularity as the most advanced method of performing laparoscopic surgery. This minimally invasive procedure coined its name from the [Da Vinci© Robot](#), which is manufactured by [“Intuitive Surgical”](#).

The Robot combines the latest achievements in medical technology and laparoscopy including:



Surgeon's console and patient side cart



High-performance InSite® Vision System



Proprietary EndoWrist® Instruments

- Ergonomically designed surgeon's console
While sitting comfortably at the console, the surgeon operates while viewing a 3-D color image of the surgical field.
- Patient-side cart with four interactive robotic arms (three instrument arms and one endoscope arm)
Endowrist instruments execute the surgeon's commands through the key-hole port sites in the patient's abdomen. Surgical team members assist the surgeon by properly installing the Endowrist instruments.
- High-performance InSite® Vision System
with high-resolution 3-D endoscope provides real-time 3-D images of the operative field, with magnification of 12-15 times. This advanced technology spares nerves and delicate tissues during the operation, which plays an important role in patients' fast recovery and maintenance of the patients' sexual and urinary function.
- Proprietary EndoWrist® Instruments
The instruments are designed with seven degrees of motion that mimic the movements of the human hand and wrist. All movements of the surgeon hands are translated into precise movements with micro-instruments.

Robotic surgery involves no incision but great precision. Compared to conventional open surgery, robotic surgery allows for less pain, faster recovery, less blood loss, fewer side effects,

For informational purposes only. Please consult your physician with any questions. USA Delaware 302-836-5500.

and better long-term results. Robotic surgery has been so successful in radical prostatectomy that in the United States it is now the number one treatment for prostate cancer.

At USA Delaware, we use robotic surgery for each of the following – see separate patient briefs listed on our website):

- Robotic Radical Prostatectomy
- Robotic Cystectomy and Diversion
- Robotic Ileal Loop Urinary Diversion
- Robotic Nephrectomy
- Robotic Partial Nephrectomy
- Robotic Sacrocolpopexy
- Robotic Ureteral Reimplant
- Robotic Roving (treatment of large renal cysts)
- Robotic Pyeloplasty

Additional Information:

- [DaVinci Surgery Web Site](#)
- [USA Delaware Educational Videos](#)
- [Prostate Cancer Information](#)