

# Urologic Surgical Associates of Delaware

## *Specializing in Robotic Surgery*

### **Robotic Sacral Colpopexy**

[Da Vinci](#) Robotic Sacral Colpopexy (also known as Robotic Assisted Sacral Colpopexy) is the most advanced method of performing laparoscopic Sacral Colpopexy. This minimally invasive procedure coined its name from the [Da Vinci® Robot](#), which is manufactured by “[Intuitive Surgical](#)”. This procedure uses the laparoscopic approach to suspend the vaginal vault from the sacral bone of the pelvis to repair pelvic descensus (cystocele, rectocele, and/or enterocele).

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.

Pelvic prolapsed or descensus is the dropping of pelvic organs through the vaginal vault (see our brochure on Pelvic Prolapse, Cystocele, and Rectocele). The most advanced surgical treatment

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for pelvic prolapsed or descensus is robotic sacral colpopexy. Robotic sacral colpopexy is the use of robotic assisted laparoscopic technology to suspend the vaginal vault from the bony sacrum. Six small port sites, about fingernail size, allow instruments to be placed into the abdomen, including a high powered camera. This enables placement of a supporting mesh to be secured to the anterior (front) and posterior (back) surface of the vagina and then the other end of the mesh is secured high in the pelvis to the pubic bone. This mesh suspension permanently eliminates pelvic prolapsed through the vagina. Most patients go home from the hospital the next day and return to their usual activities about 2 weeks after surgery.