

Urologic Surgical Associates of Delaware

Specializing in Robotic Surgery

Robotic Roving and Large Renal (Kidney) Cysts

[Da Vinci](#) Robotic Roving (also known as Robotic Assisted Roving) is the most advanced method of performing laparoscopic renal cyst decortications or removal (also known as a roving procedure). 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.

Most renal (Kidney) cysts are small, benign, and without symptoms. Some renal cysts can harbor tumors and for a full discussion on renal masses please see our patient brochure on renal masses.

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

Sometimes a renal cyst can grow so large (usually when its greater than 8cm in diameter or more) that it can cause pain. Pain comes from a renal cyst by growing so much it stretches the renal capsule and triggers nerve receptors that send a pain signal to the brain. Sometimes a large renal cyst causes no symptoms and in this situation it needs no treatment, but if a large renal cyst causes pain or discomfort it can be treated.

Percutaneous Needle Drainage

Percutaneous needle drainage is placing a needle through the skin into the renal cyst to drain the cyst. This can sometimes be done in the office and is sometimes done in the interventional radiology department of the hospital. Percutaneous drainage is a temporizing measure since the fluid within the cyst will almost always re-accumulate. While percutaneous drainage can provide only temporary relief, it can also be helpful in confirming that the renal cyst is the cause of the pain or discomfort.

Renal Cyst Decortication (Rovsing Procedure)

Removing the outer capsule of the cyst and then filling the cyst with nearby fat from around the kidney usually will eliminate symptoms from the cyst. This procedure can be carried out with robotic- assisted laparoscopic technique, usually as an outpatient (you go home the same day as the surgery). After this procedure, most patients can return to their normal activities within 2-3 weeks.