

ROBOTIC SURGERY



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21ST CENTURY SURGERY

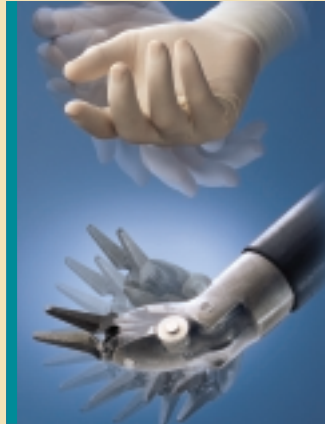
THE DA VINCI® SURGICAL SYSTEM

HOW THE DA VINCI ROBOT WORKS

Using the da Vinci surgical robot's mechanical arms and 3-D video camera, Dr. Jonathan Masel, MD performs minimally invasive surgeries resulting in smaller incisions, quicker recovery, shorter hospitalization and better patient outcomes.

While the patient is under anesthesia, three robotic arms and a video camera are inserted through small skin incisions. Then, Dr. Masel performs laparoscopic surgery while seated in front of a computer console providing a 3-D video screen and controls with which to manipulate the robotic arms. The robotic arms have tiny wrists which bend in all directions, increasing the dexterity and fine manipulation beyond the capabilities of the human hand.

This represents a tremendous advancement over standard laparoscopic surgery. In the past, surgeons have been limited to viewing anatomy on standard video monitors while working with rigid tools which have limited movement. The precision of robotic surgery causes fewer side effects and leads to faster return of function after surgery.



PATIENTS WHO BENEFIT FROM ROBOTIC SURGERY

Laparoscopic or minimally invasive surgery is the modern standard of care for patients needing surgery to treat urologic problems. The precise control of robotic surgery allows for the efficient completion of more complicated laparoscopic procedures.

Dr. Masel utilizes the da Vinci robot for the treatment of a wide range of urologic disorders including:

- Prostate Cancer
- Adrenal Tumor
- Kidney Cysts
- Kidney Cancer/
Tumor
- UPJ Obstruction
- Urinary Incontinence
- Ureteral Obstruction
- Bladder Disorders

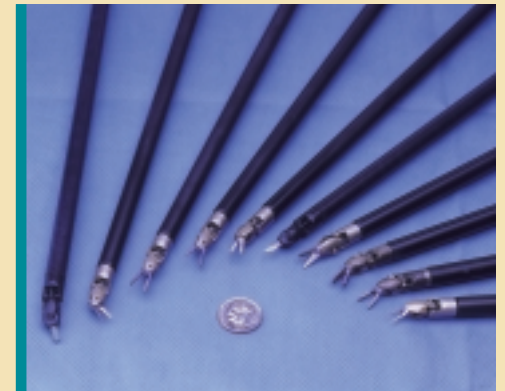
RADICAL PROSTATECTOMY FOR PROSTATE CANCER

Prostate cancer surgery is an excellent example of how robotic assistance enhances the surgeon's capabilities. When removing the prostate to cure cancer, the surgeon attempts to preserve the tiny nerves and blood vessels responsible for erectile function. The bladder is sewn to the urethra to maintain normal urinary continence and function. The da Vinci robot allows Dr. Masel to clearly see these delicate structures in a way not possible with open surgery. He is also able to reconstruct tissues with greater precision than possible with standard laparoscopic instruments.

As a result, robotic radical prostatectomy patients leave the hospital faster, have their urethral catheters removed earlier and enjoy earlier return of their erectile function and urinary control. Most patients require little pain medicine after surgery and return to work and their usual activities much faster.

IMPROVED CARE WITH ADVANCED TECHNOLOGY

While this robotic technology can improve the outcome for patients who require surgery, it does not eliminate the surgical risks. The risks and complications of robotic surgery are the same as for any operation and include infection, bleeding, scarring, anatomic injury, incontinence, impotence, cardiovascular problems, anesthetic complications and others.



Any decision to undergo robotic surgery should be made only after extensive consultation with Dr. Jonathan Masel in person so all questions can be answered in detail.