Considering Surgery for Kidney Cancer?

Learn about minimally invasive da Vinci® Surgery
If your doctor believes you have a cancerous kidney tumor and suggests surgery, the following information may be helpful to you.

Surgery to remove your kidney is known as a nephrectomy. When surgeons remove only the tumor and leave the healthy portion of your kidney, it’s called a partial nephrectomy. Surgery can be performed with open surgery or minimally invasive surgery (laparoscopy).

**Open Surgery:** Surgery is done through one large incision (cut) which allows doctors to touch your organs as they operate.

**Minimally Invasive Surgery:** During minimally invasive surgery (also called laparoscopy), the surgeon operates through a few small incisions using long instruments and a tiny camera to guide doctors during surgery.

Another minimally invasive surgery option for kidney cancer patients is *da Vinci Surgery*.

*In certain cases, your doctor may need to remove the entire kidney. If so, he/she will enlarge one incision for removal.*
**da Vinci Surgery:**
A Minimally Invasive Surgery Option

The *da Vinci* Surgical System enables your surgeon to operate through a few small incisions, like traditional laparoscopy. The *da Vinci* System features special surgical instruments that bend and rotate far greater than the human hand. It also has a magnified vision system that gives your surgeon a 3D HD view inside your body. *da Vinci* technology enables your surgeon to operate with enhanced vision, precision, and control.

*da Vinci* Partial Nephrectomy offers the following potential benefits compared to open surgery:

- Shorter hospital stay\(^{1,2}\)
- Less pain\(^{2,3,4}\)
- Less blood loss\(^{2,5}\)
- Fewer complications\(^{1,2}\)
- Smaller incisions for less scarring

*da Vinci* Partial Nephrectomy offers the following potential benefits compared to traditional laparoscopy:

- Shorter warm ischemic time (shorter is better to kidney function)\(^{6,7}\)
- Less blood loss\(^{6,8,9}\)
- Shorter hospital stay\(^{10,11,12}\)
- Fewer complications\(^{6,7}\)
- Lower positive margin rates (lower rate means less chance of cancer cells being left behind)\(^{6,7}\)
- Better renal (kidney) function rate\(^{12,13}\)

The *da Vinci* System is a robotically-assisted surgical device which your surgeon is 100% in control of at all times. *da Vinci* technology translates his/her hand movements into smaller, precise movements of tiny instruments inside your body.

The *da Vinci* System has brought minimally invasive surgery to more than 3 million patients worldwide.
Risks & Considerations Related to Nephrectomy:
Poor kidney function often due to limited blood flow, leaking of urine, cut or tear in the spleen, pancreas or liver; bowel injury, trapped air between the chest wall and lung, injury to diaphragm (muscle separating the chest from the abdomen), urinary fistula (abnormal bond of an organ, intestine or vessel to another part of the body), abnormal pooling of urine, limited or cut off blood supply to kidney, abnormal pooling of lymph fluid.

Important Information for Patients:
Serious complications may occur in any surgery, including da Vinci® Surgery, up to and including death. Risks include, but are not limited to, injury to tissues and organs and conversion to other surgical techniques. If your doctor needs to convert the surgery to another surgical technique, this could result in a longer operative time, additional time under anesthesia, additional or larger incisions and/or increased complications. Individual surgical results may vary. Patients who are not candidates for non-robotic minimally invasive surgery are also not candidates for da Vinci Surgery. Patients should talk to their doctor to decide if da Vinci Surgery is right for them. Patients and doctors should review all available information on non-surgical and surgical options in order to make an informed decision. Please also refer to www.daVinciSurgery.com/Safety for important safety information.
Your doctor is one of a growing number of surgeons worldwide offering *da Vinci®* Surgery.

For more information and to find a *da Vinci* Surgeon nearest you, visit: [www.daVinciSurgery.com](http://www.daVinciSurgery.com)