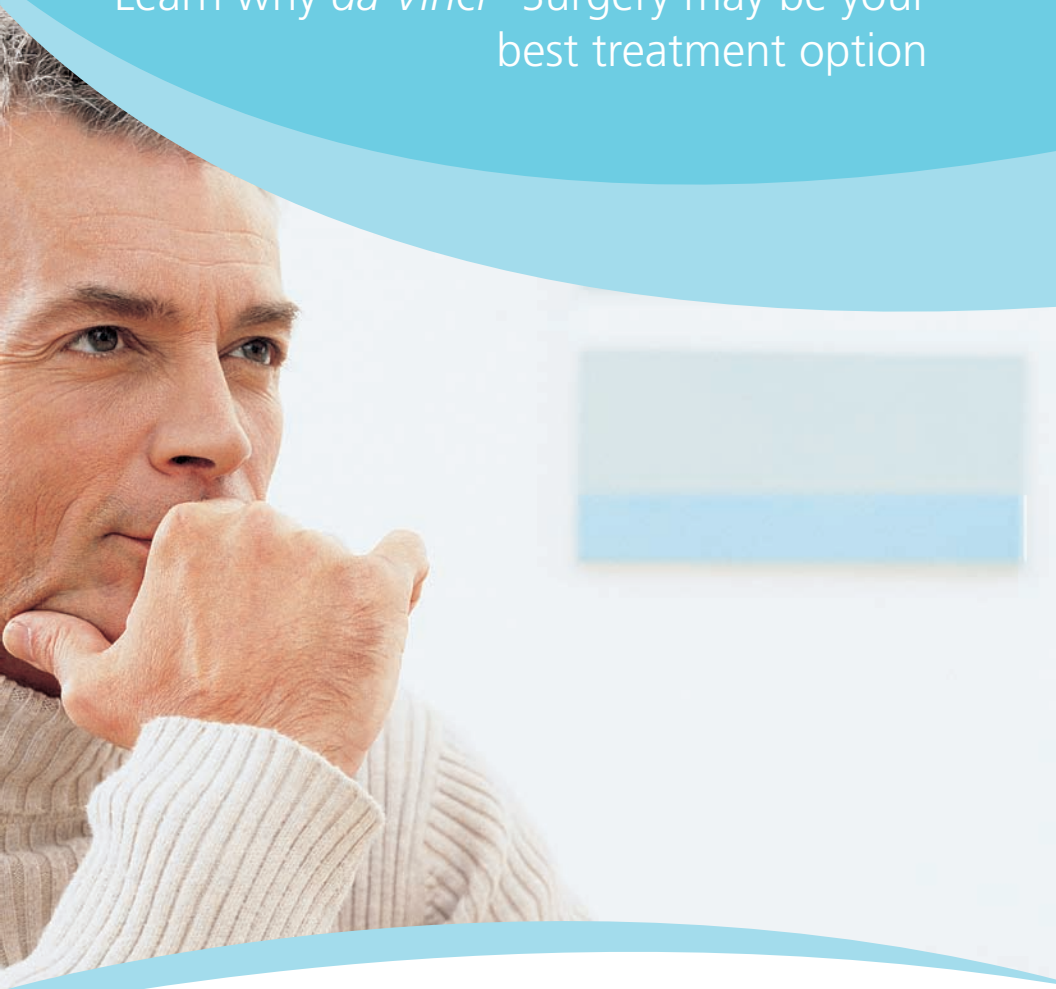
Facing Kidney Cancer?

Learn why *da Vinci*® Surgery may be your best treatment option



da Vinci® Surgery

The Condition:

Kidney Cancer

The kidneys are two small, fist-sized organs located behind the abdomen on each side of the spine. Their function is to produce urine, which is then stored in the bladder until it is emptied. By producing urine, kidneys remove toxic by-products and excess fluids from the body. This process helps to maintain a critical balance of salt, potassium and acid.

Each year, 208,500 people are diagnosed with kidney cancer worldwide.[1] It is most common in North American countries. More than 13,000 U.S. residents die from the disease each year. Overall, kidney cancer is more common in men and is usually diagnosed after age 40.[1] Fortunately, with early diagnosis and treatment, kidney cancer can be cured. If found early, the survival rate is about 60 percent.[2]

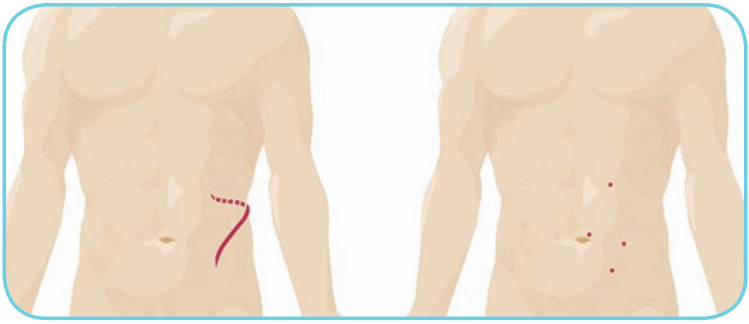
Read more... ❯❯❯

The Treatment

Kidney Cancer Surgery

Kidney cancer is relatively resistant to noninvasive treatments like radiation and chemotherapy.[3] As a result, the gold standard treatment for localized kidney cancer is surgery.[3] Kidney surgery is traditionally performed using an open approach, which requires a large abdominal incision. Another approach, conventional laparoscopy, is less invasive but limits the doctor's precision, visualization and control compared to open surgery.

da Vinci Surgery for Kidney Cancer uses the best techniques of open surgery and applies them to a robotic-assisted, minimally invasive approach. The precision, vision and control of the *da Vinci* Surgical System allows your surgeon to provide a precise, minimally invasive treatment for kidney cancer. It may also provide your surgeon the means to preserve your kidney by removing just the tumor and not the entire kidney. And preserving your kidney can help prevent future kidney disease and even dialysis.



Open Surgery Incision | ***da Vinci* Surgery Incisions***

*In certain cases, your doctor may need to remove the entire kidney. If so, he/she will enlarge one incision for removal.

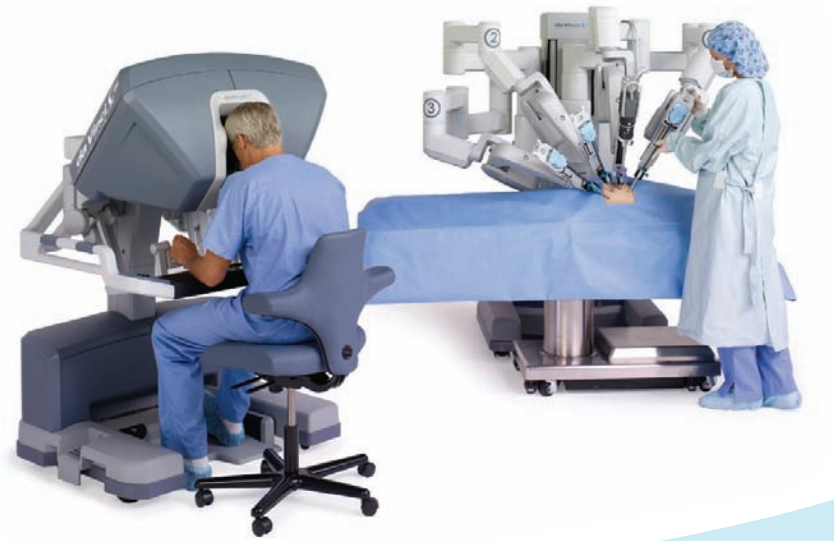
da Vinci Surgery

for Kidney Cancer

If you have been diagnosed with kidney cancer, you may be a candidate for a very effective, minimally invasive treatment — *da Vinci* Surgery. *da Vinci* Surgery uses state-of-the-art technology to help your doctor perform a more precise operation as compared to conventional surgery. It offers numerous potential benefits over open surgery, including:

- **Significantly less pain**[4]
- **Less blood loss and need for transfusion**[4]
- **Less risk of infection**[5]
- **Less scarring**[6]
- **Shorter hospital stay & recovery time**[4,5]
- **Increased potential to preserve the kidney in certain cancer operations**[7]
- **Better clinical outcomes, in many cases**[5,7]

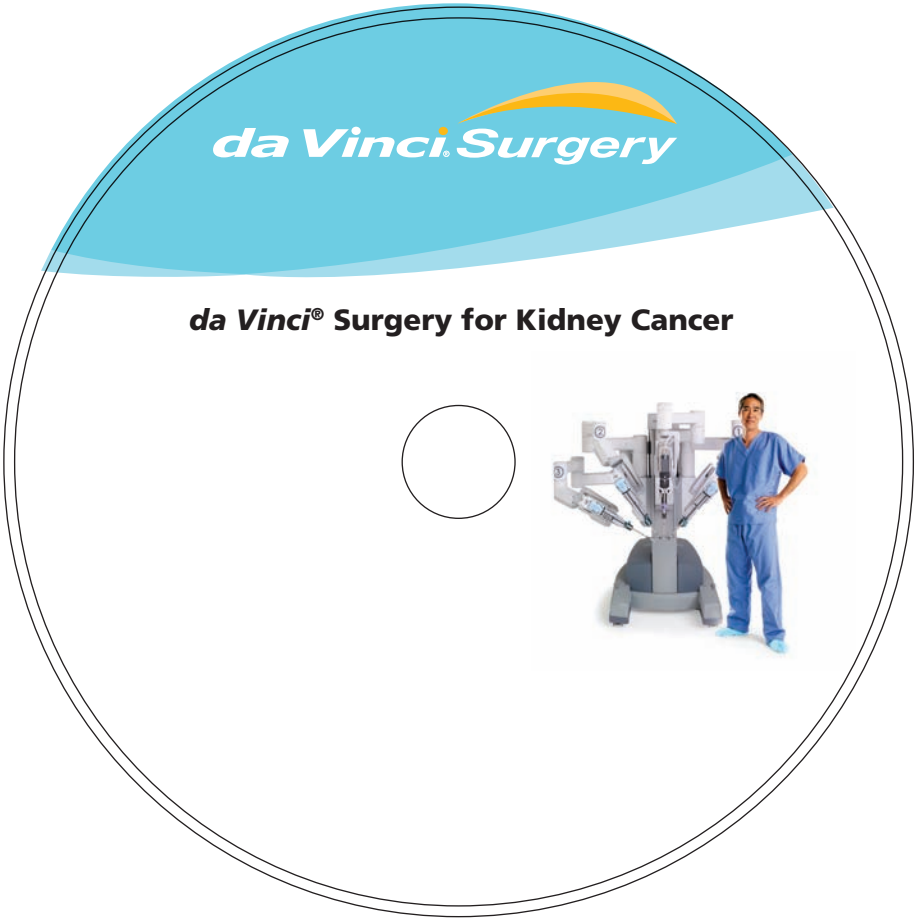
As with any surgical procedure, these benefits cannot be guaranteed as surgery is both patient and procedure specific.



Your doctor is one of many surgeons worldwide now offering *da Vinci* Surgery for a range of complex conditions.

For more information about *da Vinci* Surgery for Kidney Cancer and to find a *da Vinci* surgeon near you, please visit:

www.daVinciSurgery.com



The Enabling Technology:
The *da Vinci* Surgical System

The *da Vinci* Surgical System is designed to provide surgeons with enhanced capabilities, including high-definition 3D vision and a magnified view. Your doctor controls the *da Vinci* System, which translates his or her hand movements into smaller, more precise movements of tiny instruments inside your body.

Though it is often called a "robot," *da Vinci* cannot act on its own: Instead, the surgery is performed entirely by your doctor. Together, *da Vinci* technology allows your doctor to perform complex procedures through just a few tiny openings. As a result, you may be able to get back to life faster without the usual recovery following major surgery.

The *da Vinci* System has been used successfully worldwide in hundreds of thousands of procedures to date.

[1]http://info.cancerresearchuk.org/cancerstats/types/kidney/incidence/?view=PrinterFriendly&a=5441#ageandsex. [2]http://www.cancer.org/downloads/CRI/CRC_-_KIDNEY_(Adult)_CANCER.pdf. [3]"Kidney Cancer", www.cancer.net; http://www.cancer.net/patient/Cancer+Types/Kidney+Cancer?sectionTitle=Treatment. [4]Nazemi T, Galich A, Sterrett S, Klinger D, Smith L, Balaji KC; Radical nephrectomy performed by open, laparoscopy with or without hand-assistance or Robotic methods by the same surgeon produces comparable perioperative results; 2006 International Braz J Urol 32(1), pp. 15-22. [5]Benway BM, Wang AJ, Cabello JC, Bhayani SB; Robotic Partial Nephrectomy with Sliding-Clip Renorrhaphy: Technique and Outcomes; European Association of Urology, Accepted December 28, 2008. Published online ahead of print on January 7, 2009. [6]Renoult E, Hubert J, Ladrière M, Billaut N, Mourey E, Feuillu B, Kessler M; Robot-assisted laparoscopic and open live-donor nephrectomy: a comparison of donor morbidity and early renal allograft outcomes; Nephrology Dialysis Transplantation Volume 21, Number 2, pp. 472-477. [7]Bhayani SB, Das N., Robotic-assisted laparoscopic partial nephrectomy for suspected renal cell carcinoma. BMC Surgery 2008, 8:16 doi:10.1186/1471-2482-8-16.