

## da Vinci® Partial Nephrectomy



### Overview

This minimally-invasive procedure, performed with the da Vinci Surgical System, is used to remove a portion of a diseased kidney, sparing the rest of the kidney and allowing it to continue to function.

### Preparation

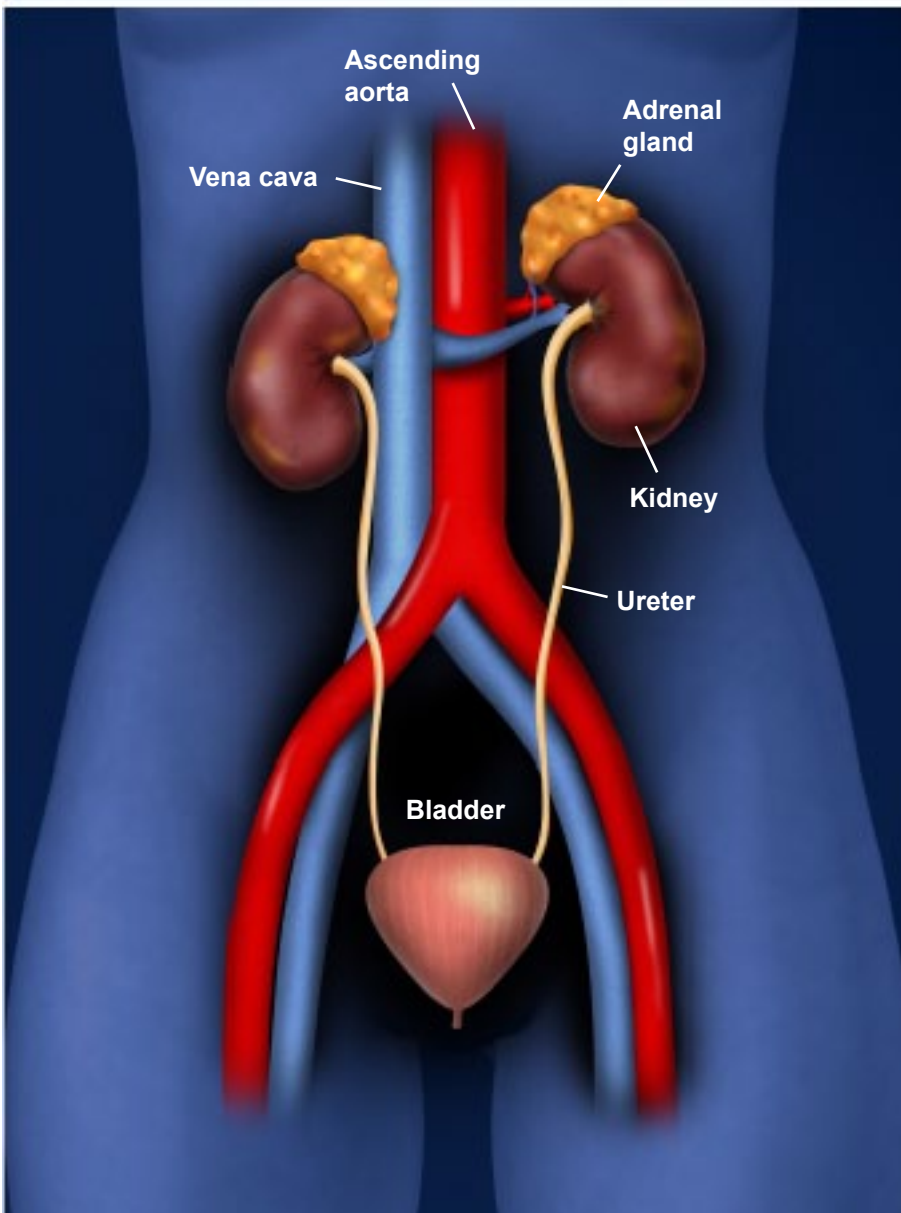
After anesthesia is administered, the patient is positioned on an adjustable platform that allows the robotic surgical arms full access to the patient's side. The skin is cleaned and sterilized.

### Accessing the Kidney

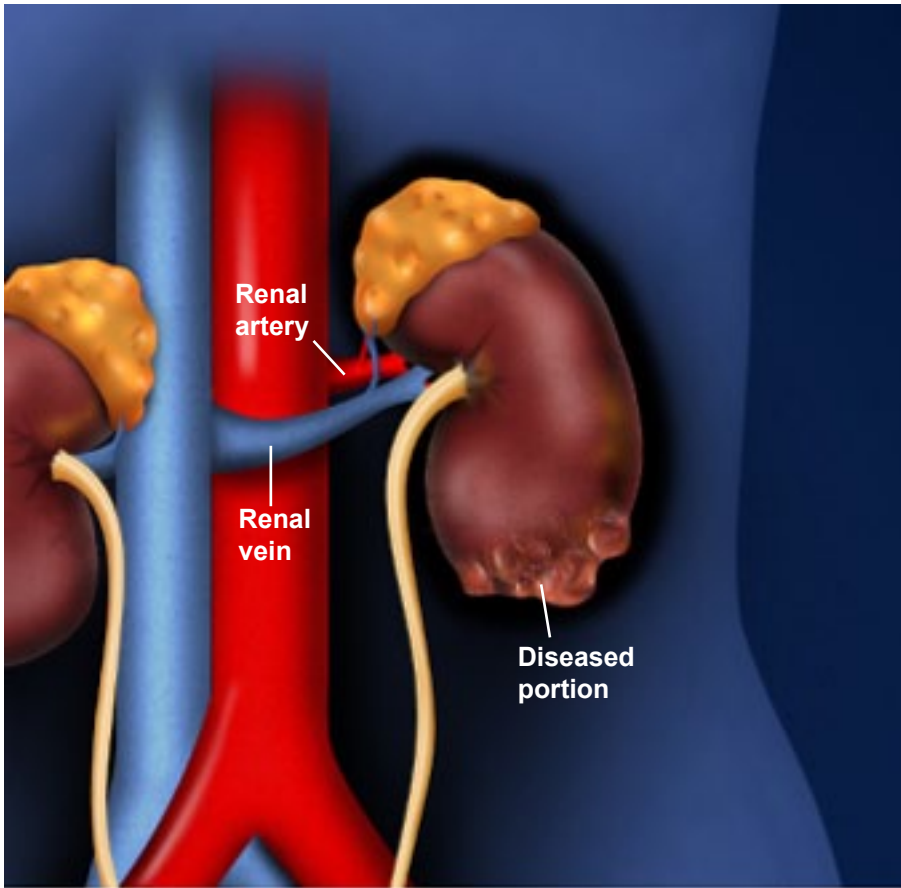
Four small incisions are created on the abdomen. The surgery will be performed through these tiny holes, rather than the large incision traditionally used for open surgery. This approach minimizes pain, scarring, risk of infection, and recovery time. An additional incision may be needed at the end of the surgery to remove the detached portion of the kidney from the body.

### Instruments Inserted

The surgeon attaches an endoscopic camera and various surgical instruments to the robotic arms and carefully inserts the instruments through the incisions. The surgeon then takes a seat at the console to perform the procedure. A video monitor in the console, which is linked to the endoscope, allows the surgeon to view the surgical site in 3D and precisely control the instruments during the surgery.



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### Isolating the Kidney

The surgeon uses the tools on the robotic arms to carefully separate the kidney from the colon and from other structures in the abdomen.

### Repairing the Kidney

The diseased portion of the kidney is carefully cut away. The surgeon uses the robotic tools to repair the remaining portion of the kidney. The diseased tissue is placed inside a surgical retrieval bag inserted through one of the incisions on the abdomen. The bag is removed through an incision.

### End of Procedure and Aftercare

The instruments are removed, and the incisions are closed and bandaged. Most patients can go home within one to two days. Patients usually can resume normal activities within 7 to 10 days - about three times faster than recovery for an open procedure.

