

# The Latest in Robotic Surgical Technology

Saint Luke's Health System is proud to offer the da Vinci® Surgical System to patients at Saint Luke's Hospital and Saint Luke's East-Lee's Summit

## Procedures offered:

### By Gynecologists

Hysterectomy (removal of the uterus)

Myomectomy (removal of uterine fibroids)

Sacral Colpopexy (correction of pelvic organ prolapse)

### By Urologists

Nephrectomy (partial or complete removal of the kidney)

Prostatectomy (removal of part or all of the prostate)

Pyeloplasties (reconstruction of the pelvis or the kidney to correct an obstruction)

Adrenalectomy (laparoscopic removal of the adrenal gland)

### By Cardiothoracic Surgeons

Atrial Septal Defect Repair (repairing a hole in the wall between the two atria allowing blood to flow between the two sides of the heart)

Coronary Artery Bypass (a section of vein/artery is used to bypass a blockage in an artery of the heart)

Epicardial Lead Placement (placement of pacemaker lead)

Lung Procedures

Mitral Valve Repair (reconstruction of a heart valve to restore proper function)

Thymectomy (surgical removal of the thymus gland)

## Components of the da Vinci Surgical System

### Surgeon Console

- Using the da Vinci Surgical System, the surgeon operates while seated comfortably at a console viewing a 3-D image of the surgical field.
- The surgeon's fingers grasp the master controls below the display, with hands and wrists naturally positioned relative to his or her eyes.
- The system seamlessly translates the surgeon's hand, wrist, and finger movements into precise, real-time movements of surgical instruments inside the patient.

### Patient-side Cart

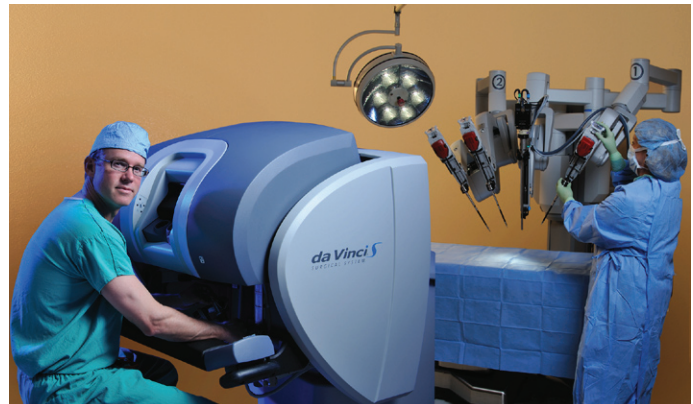
- Provides either three or four robotic arms—two or three instrument arms and one endoscope arm—that execute the surgeon's commands.
- The laparoscopic arms pivot at the 1-2 cm operating ports, eliminating the use of the patient's body wall for leverage and minimizing tissue damage.
- Supporting surgical team members assist in installing the proper instruments, prepare the 1-2 cm port in the patient and supervise the laparoscopic arms and tools being utilized.

### EndoWrist Instruments

- The instruments are designed with seven degrees of motion that mimic the dexterity of the human hand and wrist.

### Vision System

- The Vision System, with high-resolution 3-D endoscope and image processing equipment, provides the true-to-life 3-D images of the operative field.
- Operating images are enhanced, refined, and optimized using image synchronizers, high-intensity illuminators, and camera control units.



Dean Shepard



[saintlukeshealthsystem.org](http://saintlukeshealthsystem.org)