

# Robotic Surgery



Maureen M. Tedesco, MD, FACS  
The Permanente Medical Group

**Kaiser Permanente Strive to Thrive**  
November 11, 2023

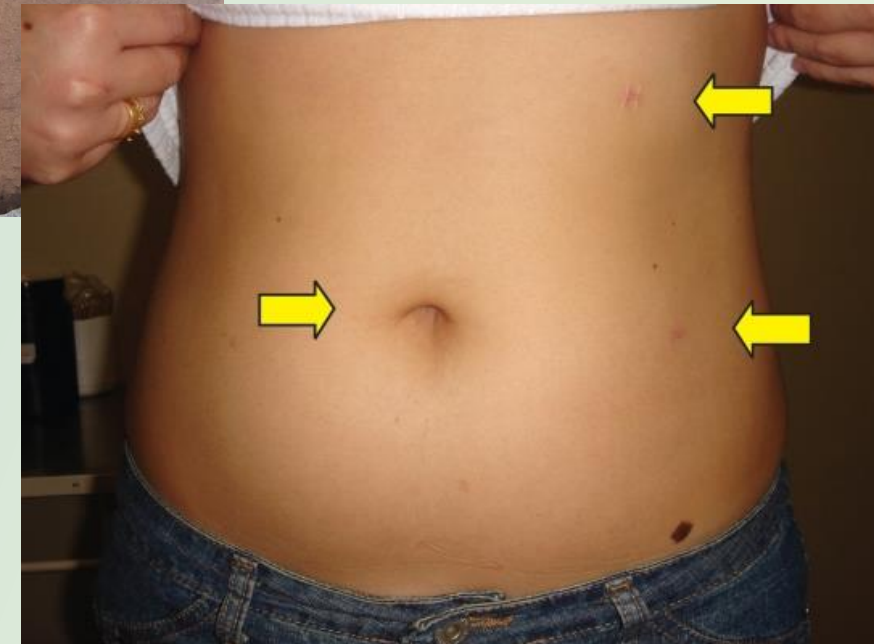
# Robotic Surgery- what is it?

- Robot-assisted surgery- not truly a robot
  - “a machine [resembling](#) a human being and able to [replicate](#) certain human movements and functions automatically”
- True definition: surgery carried out using mechanical arms controlled by the surgeon and bearing surgical instruments and a camera, especially to avoid the need for large [incisions](#).
- Allows doctors to perform complex procedures through small incisions (8 mm)
- 3 D visibility
- Wristed instruments



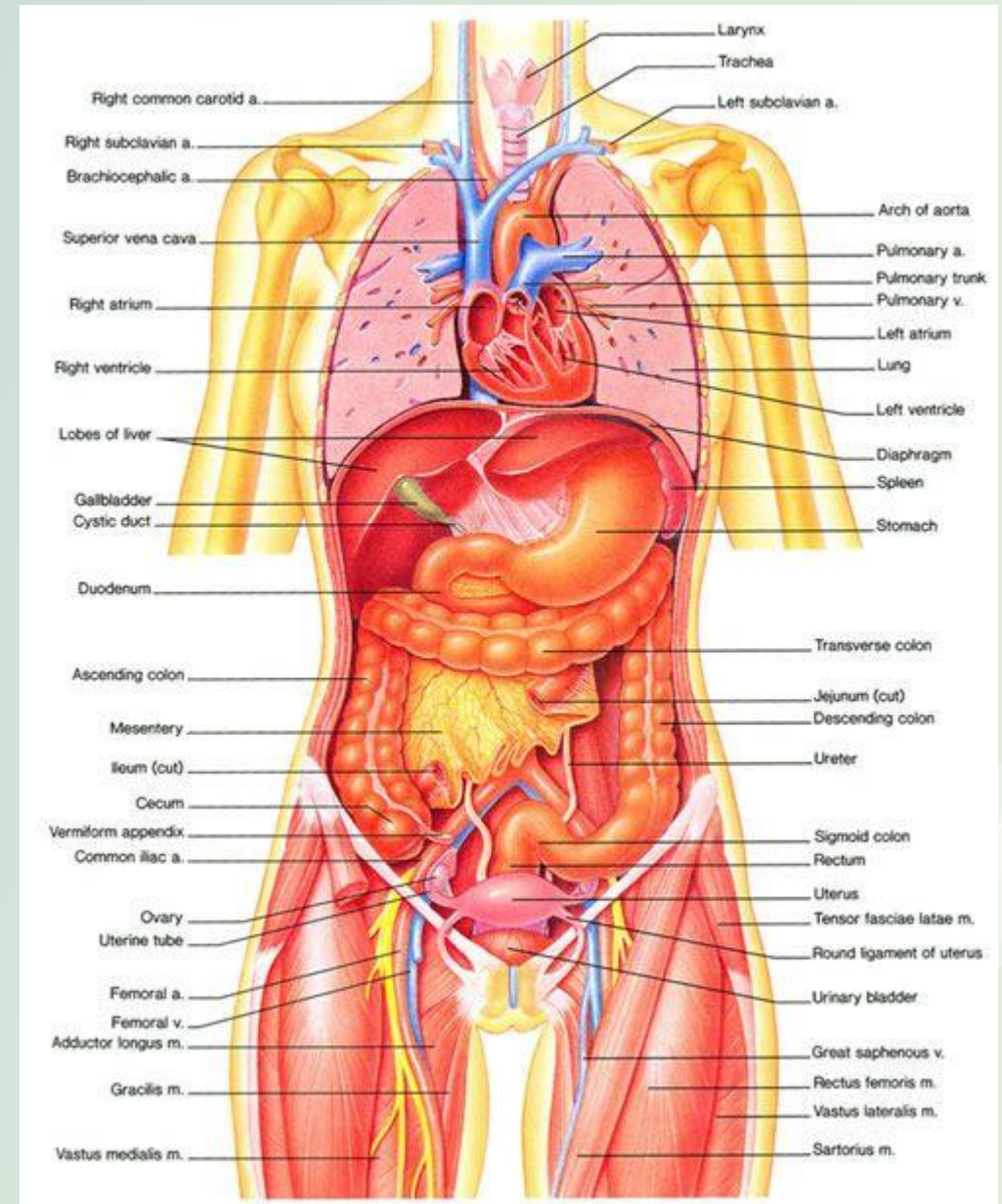
# Robotic Surgery- benefits

- Less pain
- Lower risk of infection
- Less blood loss
- Faster recovery
- Faster return to what patients enjoy



# Robotic Surgery- types of operations

- Urology- prostate, bladder and kidney
- General Surgery – stomach, colon, abdominal wall, spleen, gallbladder, rectum
- Thoracic Surgery- lung, mediastinum (area around the heart)
- Gynecologic surgery- uterus and ovaries
- Head and Neck Surgery- throat, tongue, thyroid

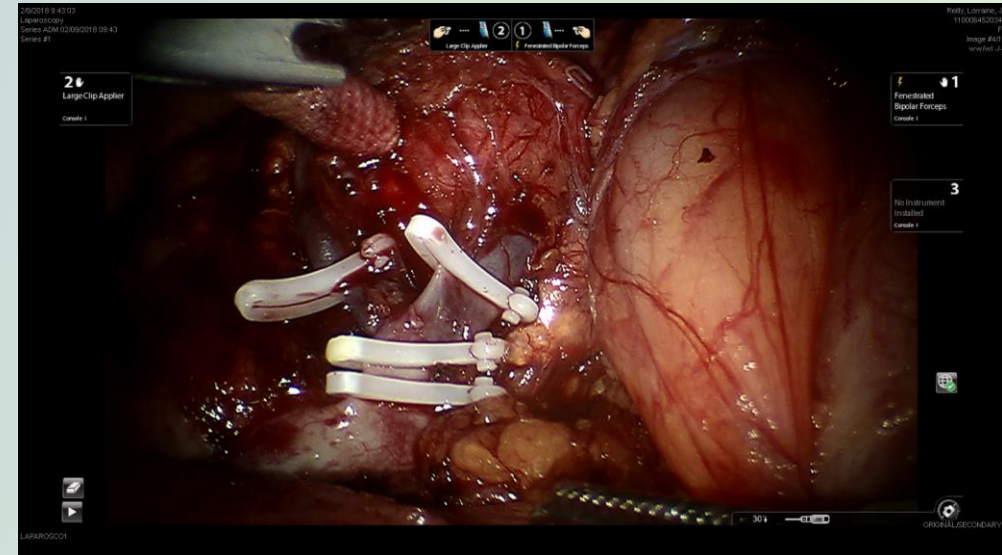
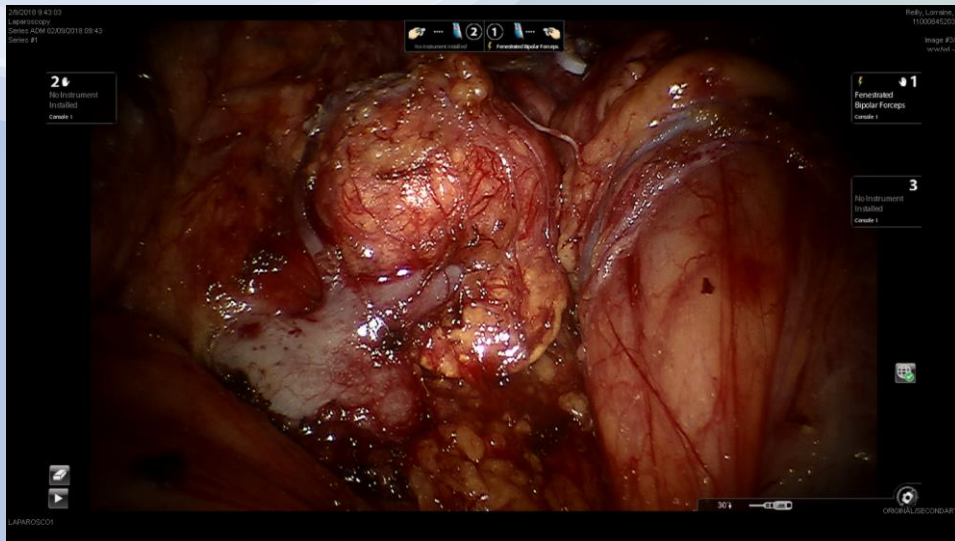




# Robotic Surgery- types of operations

- Adrenal operation

Robotic

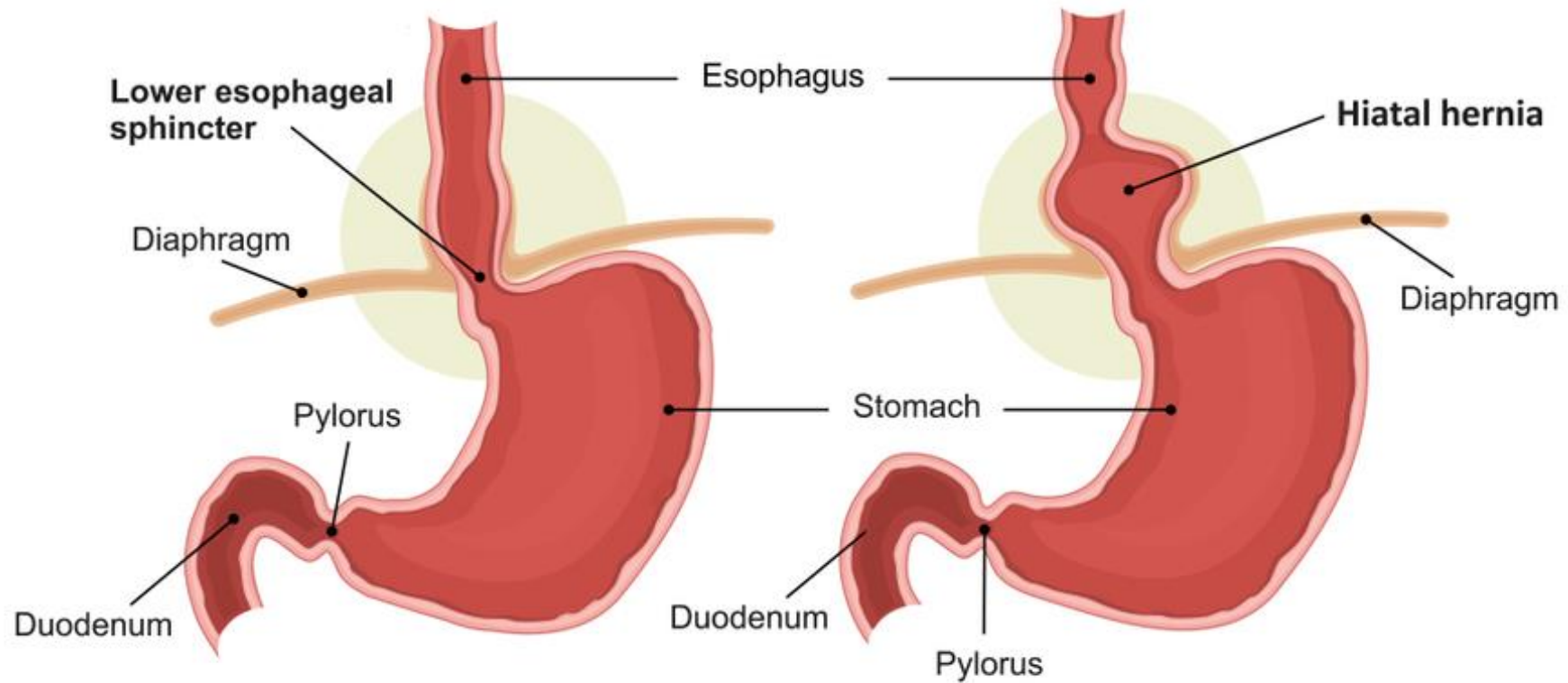


laparoscopic



## NORMAL

## HIATAL HERNIA

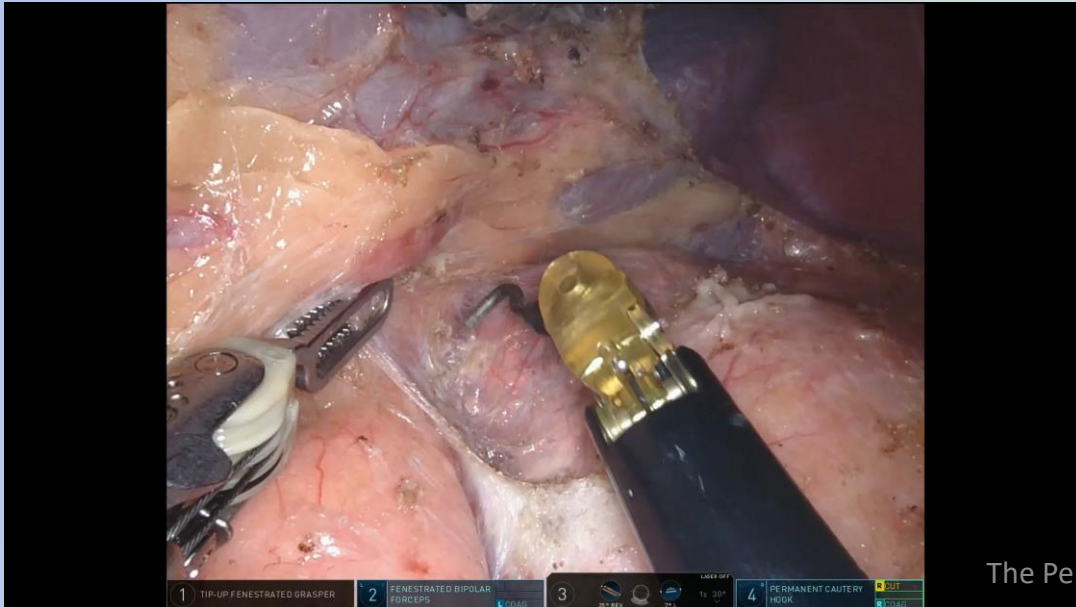






# Would you like robot surgery?

- Video game
- Rapidly changing technology- always evolving
- Team Sport
- Improving patient's lives



The Permanente Medical Group

