Virtual Learning

Medical Interventions
Kidney Donation

May 15, 2020

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Lesson: May 15, 2020

Objective/Learning Target:

Recognize that the surgical techniques involved in a live donor kidney transplant require skill, dexterity, and eye-hand coordination. (4.3.3 and 4.3.4)
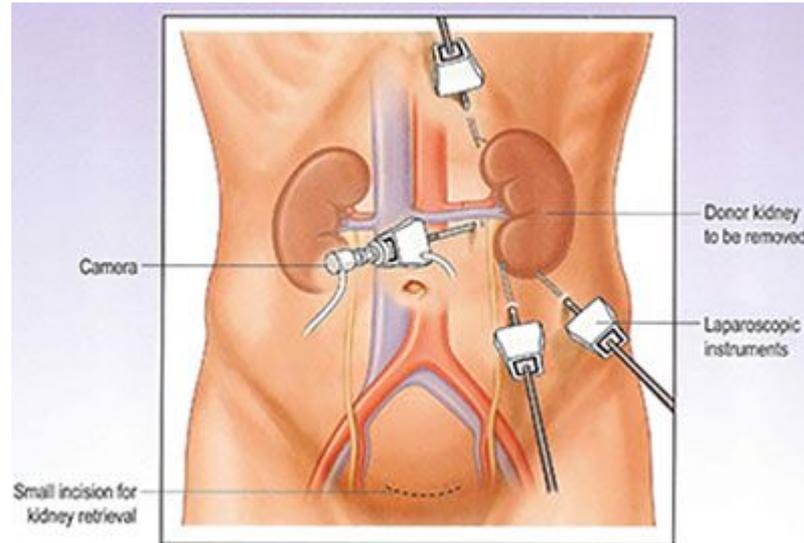
1. Review the structure and function of the kidney and what needs to happen for a kidney transplant [here](#).
2. A kidney transplant procedure is also called a nephrectomy. Typically this is done using [laparoscopic surgery](#).

View the Single Donor Port Nephrectomy using the laparoscopic technique. Summarize the procedure in a paragraph. Think about what skills would be required to perform this surgery.

Answer the following questions after completing the activity.

1. What are trocars?
2. What is the laparoscope and why is it necessary?
3. What are the benefits of performing a surgery laparoscopically?
4. What is suturing?
5. What skills are required of surgeons?

Answer the following questions after completing the activity.

1. What are trocars?
   a. short/narrow tubes inserted into the abdomen through small incisions through which long/narrow instruments are inserted
2. What is the laparoscope and why is it necessary?
   a. tool that has a tiny video camera and light on the end for viewing internal structures
3. What are the benefits of performing a surgery laparoscopically?
   a. Minimal incisions and less scarring for patients, faster
4. What is suturing?
   a. stitching up a wound or incision
5. What skills are required of surgeons?
   a. precision, dexterity, patience, collaboration, etc.

1. Check your understanding by reviewing with these flashcards.
2. While not the same procedure, view and work through this simulation for how to perform laparoscopic gallbladder surgery.
3. Consider downloading this free app on your phone to practice a wide range of surgical procedures.