





C.A.R.E. with KARL STORZ was designed to enrich the Urologic curriculum of Urology residency programs to help prepare residents for independent practice.

The C.A.R.E. program offers support for a variety of hands-on training stations to help Urology residents expand their knowledge and skill set with Endourology procedures.

Review the station offerings within this brochure and customize your residency training experience with the C.A.R.E. with KARL STORZ program.

## Program Objectives

By partnering with KARL STORZ your residents under your direct instruction will be able to:

- Demonstrate proper fluid management techniques, providing bladder distention and visualization utilizing a saline bag
- Correctly identify the components of the flexible and rigid cystoscopes, semi-rigid ureteroscopes and flexible ureteroscopes, including the specifications
- Correctly identify the components of the bipolar resectoscope, including the telescope, inner sheath, outer sheath, working element, obturator, electrode, and bipolar high-frequency cord
- Correctly assemble and disassemble a cystoscope and resectoscope
- Navigate the urinary track with proper camera orientation and understand how to use the light post as a guide
- Gain understanding of indications and limitations of using 0, 12, 30, 70 degree lenses
- Describe each type of electrode used for bipolar resection, including applications and electro-surgical generator settings
- Establish hand-eye coordination with camera head and instruments
- Improve fine motor skills with flexible and rigid instruments



## STATION 1



STATION OBJECTIVES FOR:

## **FLEXIBLE CYSTOSCOPY AND BASIC CYSTOSCOPY**

- Identify and name all cystoscope components
- Correctly assemble and disassemble cystoscopes
- Demonstrate proper use of light post with angled lens to navigate
- Use biopsy forceps and graspers to remove tissue

**STATION 2**

## STATION OBJECTIVES FOR:

**BIPOLAR RESECTION WET LAB  
WITH RESECTABLE MODEL**

- Identify and name all resectoscope components
- Correctly assemble resectoscope
- Discuss management of inflow and outflow and true bipolar electrocautery
- Demonstrate action and feel of creating plasma from loop
- Perform resection and evacuation of tissue

## STATION 3



### STATION OBJECTIVES FOR: **SEMI-RIGID URETEROSCOPY**

- Identify and name all sizes, lengths, and eyepiece angles
- Correctly assemble and focus the camera to create an optimal surgical image
- Demonstrate stone extraction with the use of graspers and baskets

**STATION 4**

STATION OBJECTIVES FOR:  
**FLEXIBLE URETEROSCOPY**

- Identify components of the flexible ureteroscope
- Discuss fluid pressure
- Discuss care and handling
- Demonstrate use of deflection and navigate the ureter into the kidney

## STATION 5

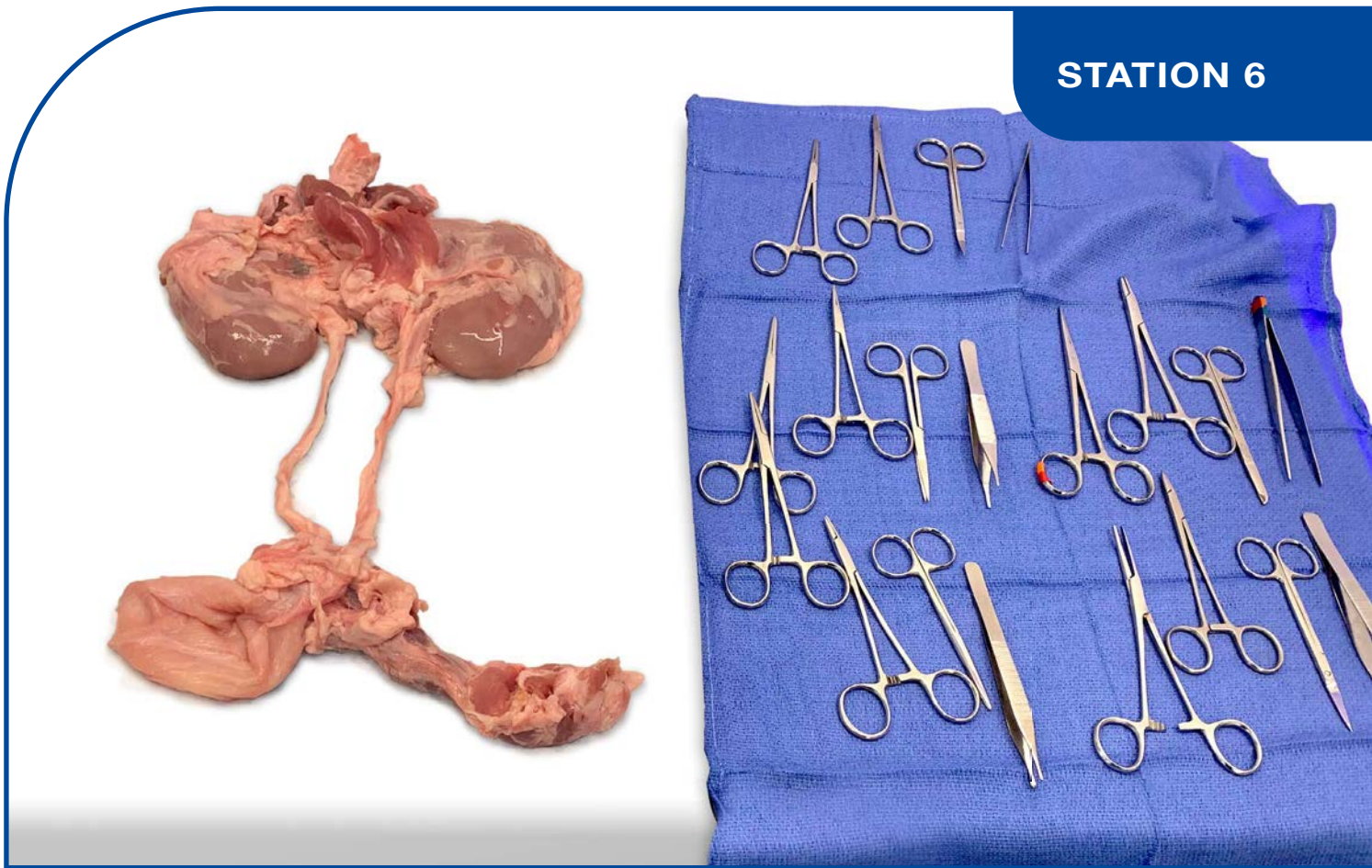


STATION OBJECTIVES FOR:  
**PERCUTANEOUS  
NEPHROLITHOTOMY**

- Discuss size and length of scope options
- Gain access utilizing wires, sheaths and dilator
- Perform stone extraction and navigate calyces
- Demonstrate vacuum effect with MIP set (if applicable)



**STATION 6**



STATION OBJECTIVES FOR:  
**OPEN SUTURING STATION**

- Perform knot tying on ruptured ureter and bladder

## FAQ - Frequently Asked Questions

- **Who is the program intended for?** This program is primarily intended for residents and medical students.
- **What is the program length?** Ideally, the program should be a minimum of 4 hours, allowing adequate time for each participant at each station. KARL STORZ can provide a variety of stations shown in this document.
- **How much advance notice is required to provide support?** A minimum notice of 60 days is required to ensure that equipment, instrumentation, and KARL STORZ personnel can be coordinated.

## Residency Program Responsibility

- Provide dedicated space suitable for the hands-on lab portion
- Provide one six-foot table for each requested station
- Commit to have at least 75% of residents attend
- Provide normal saline and cysto tubing for wet lab stations
- (Optional) Include other local faculty member(s) for didactic presentations and/or proctoring the hands-on lab for added clinical educational value

## KARL STORZ Responsibility

- Provide hands-on equipment and instrumentation
- Provide models or tissue for each station
- Provide a resource person to help with on-site support of the lab
- Provide product training guided by the *Instructions For Use* for each instrument
- Set up and cleanup of the equipment provided for the hands-on training lab



**Contact KARL STORZ to start planning your training today!**

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