

## **Calculus Disease, Laparoscopy, Robotics & Upper Tract Obstruction,**

### **1. Upper Tract Obstruction**

- a. UPJ obstruction
  - i. Dx and management
- b. Retroperitoneal Fibrosis
  - i. Dx, management- surgical and medical
- c. Ureteral strictures and fistulas post endoscopy
  - i. Dx and management
- d. Complications of long term indwelling ureteral stents

### **2. Renal and Ureteral Calculi**

- a. Dx- including metabolic evaluation
- b. Rx
  - i. All forms, SWL, PCN, ureteroscopy, etc
  - ii. Medical therapy for underlying metabolic abnormalities
- c. Recommended follow-up following stone extraction

### **3. Complications of PCN, ESWL, Laparoscopy and Robotics**

- a. Ureteral stricture post ureteroscopy Dx and Rx
- b. Ureteral perforation: Dx and Rx
- c. PCN complications
  - i. Bleed
  - ii. Bowel perforation
  - iii. Urinoma
- d. ESWL- complications
- e. Robotic complications
  - i. Diminished blood flow
  - ii. Reduced urine output
  - iii. Air embolism
  - iv. Complications of trocar placement