

# PRESENTATION 3

## DAY SURGERY RENAL STONE MANAGEMENT: EFFICACY AND SAFETY OF URETEROSCOPY AND LASERTRIPSY

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### **Introduction:**

Incidence of renal stones is rising worldwide and increasingly ureteroscopy (URS) coupled with laser fragmentation is being used safely within the day surgery setting for ureteral and renal stone management. This study is to explore whether URS guided lithotripsy could be delivered effectively as a day surgery procedure.

### **Method:**

Retrospective analysis of 192 day surgery patients who underwent URS - Guided Lasertripsy for ureteric and renal calculi between November 2016 and August 2019. All patients underwent ureteric stenting during acute admission prior to the URS guided lithotripsy. Outcomes were compared against European Association of Urology (EAU) guidelines on the best clinical practice in use of URS in urolithiasis including the Clavien-Dindo scale for assessing complications.

### **Results:**

Of the 192 patients who underwent URS and laser fragmentation, the mean age was 55 years with a 2:1 male:female ratio. 59% were ureteric (70% upper, 9% middle and 21% distal ureter), 41% renal (16% upper pole, 25% middle pole and 59% lower pole). The mean renal stone size was 9.4 mm, with complication rate was 6% (n = 12), with Clavien 3 in 6 cases and Clavien 4 in 1 case.

### **Conclusion:**

In our opinion, this study demonstrated that URS guided stone fragmentation can safely deliver high stone free and low complication rates within the day surgery setting.