

## VID-30

### **Retrograde Intrarenal Surgery (RIRS) for treating deep calyceal diverticulum and stone extraction**

K. Saad

*Alexandria University Hospital, Alexandria, Egypt*

**Introduction:** There are several techniques for treating calyceal diverticulum harboring stones in a kidney. These techniques including antegrade approach either direct or indirect and retrograde intrarenal surgery (RIRS). In this video we present the least minimal invasive procedure RIRS using laser incision and stone extraction.

**Method:** A 16 year old girl presented with history of right flank pain with no history of hematuria, her IVP and NCSCCT showed multiple small right kidney stones in upper polar deep calyces diverticulum. The video shows the technique for retrograde surgery of diverticular identification, incision and stones extractions using Flexible ureteroscopy, Holmium laser and 2.2 Fr nitinol stone basket.

**Results:** The operating time was 70 minutes. Radiation exposure time was 120 second. The blood loss was negligible. The post-operative recovery was uneventful.

**Conclusion:** Retrograde Intrarenal surgery is the least invasive and safer alternative for treating calyceal diverticulum stones, and should be number one option especially for this purpose.

*As published in the Supplement of AFJU, Volume 18 (2012), 1<sup>st</sup> ESD "Experts in Stone Disease" Conference (page 20)*