

## FP29

### **Retrograde intrarenal surgery as a new surgical treatment modality of stone in horseshoe kidney: a case report**

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**Objective:** Retrograd intrarenal surgery(RIRS) in patients with horseshoe kidney is a new surgical modality and naturally it is not well known as well. Horseshoe kidney is a congenital partial fusion of the kidney resulting the shape of horseshoe and it is the most common genitourinary abnormality with the incidence of 1 in 400 persons. In this case we present a kidney stone in a patient with horseshoe kidney's right component and treated with RIRS.

**Material-Methods:** A-23-year-old male patient has applied our clinic with the pain of his right side and middle of his abdomen. In his physical examination, laboratory analysis and radiological imaging such as non-enhanced tomography it is detected that he has a horseshoe kidney which has multiple stones, that are the biggest one's size approximately 15 millimeter in the right side collecting system. according to these findings retrograde intrarenal surgery(RIRS) is planned and carried out successfully. Third day after the surgery the patient is discharged with no complication and suggestion of plenty of oral fluid in take and plenty of activation.

**Results:** Advances in flexible ureteroscopes and intracorporeal lithotripsy have provided the management of upper urinary tract calculi endoscopically. With minimal morbidity and short term hospitalization flexible ureteroscopy offers an alternative treatment.

**Conclusion:** But of course, especially in patients with horseshoe kidney it is poorly investigated about it's success rates. We consider about that our case will give the urologists an idea at the surgical management of stone disease in horseshoe kidney patient.