

## A Complex Clinical Case with Retroperitoneal Fibrosis

Selçuk Sarıkaya<sup>1</sup>, Ridvan Özbek<sup>2</sup>, Cagri Senocak<sup>2</sup>, Ömer Faruk Bozkurt<sup>2</sup>

<sup>1</sup>Gulhane Research and Training Hospital, Department of Urology, Ankara, Turkey.

<sup>2</sup>Kecioren Research and Training Hospital, Department of Urology, Ankara, Turkey.

**Corresponding Author:** Selcuk Sarikaya, Gulhane Research and Training Hospital, Department of Urology, General Tevfik Saglam Caddesi, Etlik – Ankara / Turkey, **Tel:** +905316274819; **Email:** drselcuksarikaya@hotmail.com

**Received Date:** 21 Aug 2017

**Accepted Date:** 22 Aug 2017

**Published Date:** 25 Aug 2017

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**Citation:** Sarikaya S, Özbek R, Senocak C and Bozkurt ÖF. (2017). A Complex Clinical Case with Retroperitoneal Fibrosis. M J Urol. 1(1): 001.

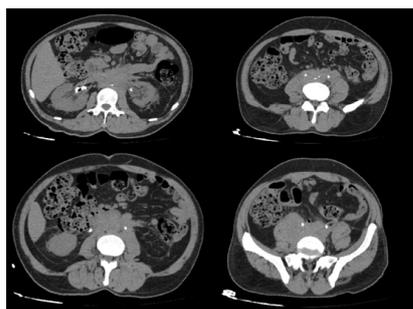
### INTRODUCTION

Retroperitoneal fibrosis (RP) is an inflammatory tissue reaction characterized with fibrosis in the the retroperitoneum [1]. There are different diagnostic radiologic studies used for the diagnosis of RP [2]. The disease is also called 'Ormond disease [3].

In this study, we aimed to present the patient that was admitted to our clinic with bilateral hidronephrosis and diagnosed as retroperitoneal fibrosis, the surgical treatment of disease and persistent clinical situation.

### CASE REPORT

54 year-old male patient admitted to emergency service with bilateral flank pain, nausea and vomiting. According to ultrasonography there was bilateral hydronephrosis. Creatine level increased and the patient was consulted to our clinic. Creatinine level was 6.2mg/dl and there was oliguria. Ultrasonography revealed right pelvicalyceal grade 3 hydronephrosis, and left pelvicalyceal grade 1 hydronephrosis. Computerised tomography was normal. Magnetic resonance revealed hypointense soft tissue formation compatible with retroperitoneal fibrosis that was in midline of abdomen and started from truncus choliacus and extended to iliac bifurcation level and through paraaortic and left pararenal space. Bilateral double J catheterization and steroid treatment was given. (Figure 1)



**Figure 1:** Computerised tomography(CT), fibrotic inflammation.

In early postoperative period, creatinine level decreased to 2.1 mg/dl. In the following period, bilateral urethrolisis operation was performed in another clinic due to the increased creatinin levels and persistent bilateral hydronephrosis according to ultrasonography. On postoperative 6th month, patient admitted to our clinic again with bilateral flank pain and ultrasonography revealed right grade 3 hydronephrosis and left grade 1 hydronephrosis. After that we performed bilateral urethral double J catheterization. But due to the persistent right hydronephrosis nephrostomy catheter was inserted. On postoperative 3rd month Escherichia Coli was detected in urine culture and appropriate antibiotherapy was given. After treatment right nephrostomy and left DJ catheter was removed and right metallic DJ catheterization was performed. On postoperative 3rd month creatinine level was 1.4 mg/dl. There wasn't any urinary tract infection periodic dj catheter exchange operations planned for the patient

### DISCUSSION

Retroperitoneal fibrosis, is a progressive clinical situation caused by inflammatory and fibrotic reaction in retroperitoneum that pushes the ureter and create mass effect to retroperitoneal structures like ureter [4]. Firstly, medical treatment and endoscopic or percutaneous decompression options would be considered as treatment options. For the cases that medical therapy failed, open or laparoscopic surgical treatment would be preferred. Despite to medical and surgical treatments, clinical situation would be unfortunately seen as persistent and resistant.

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