

323 Renal Stones in a Functional Kidney

Bhavesh Devkaran, Navneet Sharma, Alok Pandey, Arun Kumar Gupta

A 50 years old male patient presented with occasional left flank pain and irritative lower urinary tract symptoms with 1 to 2 episodes of hematuria since 1 to 2 years ago. No history of other medical or surgical diseases was noted. His general physical examination and routine investigations were normal. Kidney-ureter-bladder (KUB) X-ray revealed multiple radio-opaque shadows in left renal area (Figure 1). On ultrasonography, multiple calculi in left kidney with prominent pelvicalyceal system causing ureteropelvic junction (UPJ) narrowing was seen. Intravenous urography (IVU) demonstrated bilateral functioning kidneys, multiple calculi with prominent pelvis and grade IV hydronephrosis in left side, and UPJ narrowing. Renal scintigraphy revealed relative function of 40%. Diagnosis of left renal calculi with UPJ narrowing was made. Patient was planned for surgery and left pyelonephrolithotomy with Anderson-Hynes pyeloplasty were done. Intraoperatively, left hydronephrotic kidney with impacted multiple stones were seen. Renal parenchyma was thinned out at places. UPJ narrowing was also present. Maximum stones were extracted through pyelolithotomy and rest through nephrolithotomy which were 323 in number, measuring from 5 mm to 2 cm (Figure 2). Intraoperatively stone free status was confirmed with C-arm. Postoperatively his KUB X-ray shows no residual calculus (Figure 3).

Department of Surgery, Indira
Gandhi Medical College, Shimla
Himachal Pradesh, India.



Figure 1. Kidney-ureter-bladder X-ray demonstrates multiple radio-opaque shadows in left renal area.



Figure 2. Extracted 323 renal stones measuring from 5 mm to 2 cm.



Figure 3. Postoperative kidney-ureter-bladder X-ray shows no residual calculus.

Corresponding Author:

Bhavesh Devkaran, MD
Department of Surgery, Indira Gandhi
Medical College, Shimla Himachal
Pradesh, India.

Tel: +91 177 2628919
Fax: +91 177 2883401
E-mail: devkaranbhavesh@gmail.
com

Received March 2013
Accepted April 2013