323 Renal Stones in a Functional Kidney

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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 hydronehprotic 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).

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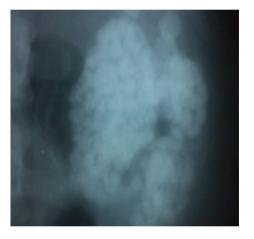




Figure 1. Kidney-ureter-bladder X-ray demonstrates multiple radio-opaque shadows in left renal

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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.