

Variables	Summary statistics
Gender:	
Female	93 (62%)
Male	57 (38%)
Age (year)	45 (30 – 55)
BMI	27 (25.75 – 29)
Etiology of solitary kidney (Contralateral kidney):	
Atrophic (small sized)	27 (18%)
Congenital agenesis	6 (4%)
Functional solitary kidney (echogenic or chronic pyelonephritic)	96 (64%)
Nephrectomised	21 (14%)
Degree of hydronephrosis:	
Mild hydronephrosis	45 (30%)
Moderate hydronephrosis	27 (18%)
No hydronephrosis (24 patients with previous nephrostomy tube)	78 (52%)
Creatinine (mg/dl)	1.1(0.9 – 1.36)
eGFR (mL/min per 1.73 m ²)	72.05 (55.43 – 84.9)

Table 1: Preoperative patient and kidney characteristics.

Stone characteristics	Summary statistics
Site of stones:	
Lower calyx	27 (18%)
Middle calyx	3 (2%)
Upper calyx	6 (4%)
Upper third ureter	3 (2%)
Pelvic	39 (26%)
Multiple	72 (48%)
HFU (stone density)	1039 (636 – 1441)
Opacity:	
Lucent	36 (24%)
Opaque	114 (76%)
Stone Burden (mm ²)	314 (152 – 506)
Stone side:	
Left	84 (56%)
Right	66 (44%)
Guy's Stone Score (stone site):	
GSS1	51 (34%)
GSS2	57 (38%)
GSS3	42 (28%)

Table 2: Stone characteristics

GSS: Guy's stone score

Intra operative data	Summary statistics
Stone free rate:	
Initial	129 (86%)
Final	141 (94%)
Auxiliary procedures:	
2nd look PNL	12 (8%)
DJ insertion	4 (2.7%)
No	134 (89.3%)
Numbers of tracts	
One	134 (89%)
Two	16 (11%)
Site of tracts	
Lower calyx	125 (83.3%)
Middle calyx	3 (2%)
Middle and lower	16 (10.7%)
Upper calyx	6 (4%)
Dilatation	
Acute	117 (78%)
Gradual	33 (22%)
Operative time (min)	25 (20 – 60)
Hospital stay (days)	2 (1-3)

Table 3: PNL outcomes and operative data.

Grades	complications	Number of patients
Grade I	-	-
Grade II	Bleeding requiring blood transfusion	11
	Pyrexia treated with non prophylactic antimicrobial agents	8
	Urinary leakage – watchful waiting	9
Grade IIIa	Persistent urinary leakage need DJ stent	3
	Hematuria requiring blood transfusion + Obstructed kidney + Azotemia need DJ stent	1
	Hydropneumothorax need chest tube insertion	5
Grade IIIb	-	-
Grade IVa	Hydropneumothorax need chest tube insertion + ICU admission	1
Grade IVb	-	-
Grade V	Cardiac arrest + ICU admission and Death	1
Total number of patients with complications		39 patients

Table 4: Perioperative complications according to modified Clavien classification system

Table 5: Univariate binary logistic regression analysis of predictor variables of complications.

Variables	Complicated (no = 39)	Non complicated (no = 111)	P - value
Age (years)	48	45	0.745
Guys Scoring System (stone site)			
GSS 1	9 (23%)	42(37.83%)	0.048
GSS 2	15 (38.5%)	42(37.83%)	
GSS 3	15 (38.5%)	27(24.23%)	
Numbers of tracts			
One	35 (89.7%)	99(89.19%)	0.923
Two	4 (10.3%)	12(10.81%)	
Renal intervention history			
No	27 (69.2%)	90(81.79%)	0.947
Yes	12 (30.8%)	21(18.21%)	
Previous PCN insertion			
No	35 (89.7%)	91(81.98%)	0.917
Yes	4 (10.3%)	20(18.12%)	
Dilatation			
Acute	33 (84.6%)	84(75.68%)	0.004
Gradual	6 (15.4%)	27(24.23%)	
HFU (stone density)	1200	935	0.915
Stone Burden (mm ²)	276	314	0.143
Operative time (min)	30	25	0.023

Variables		P - value
Guys Scoring System (stone site)		
GSS 1	3(25%)	0.154
GSS 2	3(25%)	
GSS 3	6(50%)	
Numbers of tracts		
One	8(67%)	0.008
Two	4(33%)	
Renal intervention history		
No	9(75%)	0.391
Yes	3(25%)	
Previous PCN insertion		
No	12(100%)	0.647
Yes	0(0%)	
Dilatation		
Acute	9(75%)	0.462
Gradual	3(25%)	
HFU (stone density)	1115	0.075
Stone Burden (mm ²)	685	0.933

Table 6: Univariate binary logistic regression analysis of predictor variables of bleeding.