

Supplementary table 1. Demographics and pre-operative characteristics of the 226 patients included in the analysis.

Item	Value
Patients, n. (%)	226 (100.0)
Gender, n. (%)	
Male	141 (62.4)
Female	85 (37.6)
BMI (kg/m²), median (IQR)	26.3 (24.3 - 28.1)
Educational level, n. (%)	
Secondary school	32 (14.2)
High school	111 (49.1)
University	43 (19.0)
Prior treatments, n. (%)	
ESWL	36 (15.9)
RIRS	28 (12.4)
PCNL/ECIRS	8 (3.5)
Multiple	9 (4.0)
Previous renal colic, n. (%)	56 (24.8)
Stone size (mm²), median (IQR)	130 (56 - 250)
Skin to stone distance (mm), median (IQR)	90.5 (74.3 - 106.3)
Hydronephrosis, n. (%)	
mild	45 (19.9)
moderate	34 (15.1)
severe	23 (10.2)
N. calyces involved, n. (%)	
1	116 (51.3)
2	45 (19.9)
3	13 (5.8)
Staghorn	8 (3.5)
Ureteric	40 (17.7)
Stone density (HU), median (IQR)	900 (670 - 1159)
N. stones, median (IQR)	1 (1 - 2)
Pre-stented, n. (%)	56 (24.8)
Preoperative nephrostomy, n. (%)	14 (6.2)
The Guy's scoring system, median (IQR)	2 (1 - 2)
STONE score, median (IQR)	7 (5 - 8)
Type of delivered treatment (%)	
ESWL	64(28.3)
URS/RIRS	112 (49.5)
PCNL	50 (22.12)

Abbreviations are as follow: BMI: Body Mass Index; IQR: interquartile range; ESWL: Extracorporeal Shock Wave Lithotripsy; RIRS: Retrograde Intrarenal Surgery; PCNL: Percutaneous Nephrolithotomy; ECIRS: Endoscopic Combined Intrarenal Surgery; URS: ureteroscopy