

## SUPPLEMENTARY MATERIAL

# **Efficacies of Various Surgical Regimens in the Treatment of Renal Calculi Patients: a Network Meta-Analysis in 25 Enrolled Controlled Clinical Trials**

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**Supplementary Table 1.** The baseline characteristics for included studies.

Author	Year	Country	Interventions				Stone size (cm <sup>2</sup> )				Sample size				Age (years)				Gender (M/F)								
			T1	T2	T3	T4	T1	T2	T3	T4	Total	T1	T2	T3	T4	T1	T2	T3	T4	T1	T2	T3	T4				
Soliman T	2016	Egypt	A	B	-	-	1.55 ± 0.28	1.57 ± 0.26			150	75	75	-	-	37.75 ± 11.25 (20–65)				40.55 ± 10.55 (25–60)	-	-	-	41/34	34/41	-	-
Piao S	2016	Korea	B	C	-	-	NR	NR			53	11	42	-	-	61.7 ± 13.0	57.0 ± 13.2	-	-	NR	NR	-	-				
Ozayar E	2016	Turkey	C	D	-	-	1.53 ± 0.7	2.22 ± 1.17			56	26	30	-	-	42.5 ± 10.9	47.8 ± 11.4	-	-	14/12	20/10	-	-				
Aminsharifi A	2016	Iran	D	E	I	-	7.91 ± 1.56	7.7 ± 1.43	6.98 ± 2.22		45	16	14	15	-	48.0 ± 8.57	48.21 ± 7.87	47.93 ± 9.3		13/3	11/3	13/2	-				
Wilhelm K	2015	Germany	B	F	-	-	1.93(1.0-3.5)	1.92(1.0-3.5)			50	25	25	-	-	51.56 (15–75)	51.36 (19–77)	-	-	15/10	19/6	-	-				
Sener NC	2015	Turkey	A	F	-	-	0.79 ± 0.11	0.82 ± 0.12			100	50	50	-	-	34.5 ± 11.04	36.84 ± 11.70	-	-	37/13	35/15	-	-				
Lai D	2015	China	F	G	-	-	NR	NR			144	72	72	-	-	50.4 (13.2) 22–71	48.2 (11.4) 19–65	-	-	48/24	42/30	-	-				
Kumar A-a	2015	India	A	C	-	-	NR	NR			180	90	90	-	-	37.7 ± 2.4	35.6 ± 2.1	-	-	44/46	46/44	-	-				
Kumar A-b	2015	India	A	B	C	-	1.32 ± 0.12	1.33 ± 1.3	1.31 ± 1.1		126	42	41	43	-	33.1 ± 1.39	33.7 ± 1.6	33.4 ± 1.4	-	21/21	20/21	20/23	-				
Kiremit MC	2015	Turkey	A	B	C	H	1.44 ± 0.29	1.68 ± 0.33	1.42 ± 0.37	1.34 ± 0.25	935	535	110	201	89	44.43 ± 14.8	25.05 ± 20.75	44.28 ± 16.28	40.1 ± 20.32	348/187	56/54	111/90	46/43				
Karakoyunlu N	2015	Turkey	D	F	-	-	2.61 ± 0.33	2.72 ± 0.37			60	30	30	-	-	45.8 ± 14.1	48.4 ± 15.5	-	-	18/12	16/14	-	-				
Tepeler A	2014	Turkey	D	H	-	-	2.19 ± 0.48	1.99 ± 0.5			20	10	10	-	-	44.3 ± 10.1 (27–62)	47.2 ± 15.1 (28–66)	-	-	6/4	4/6	-	-				
Bas O	2014	Turkey	A	D	F	-	1.53 ± 0.21	1.59 ± 0.29	1.48 ± 0.23		149	52	50	47	-	46.4 ± 15.1	45.5 ± 13.1	47.2 ± 14.2	-	28/24	29/21	30/17	-				
Resorlu B	2013	Turkey	A	C	D	-	1.49 ± 0.39	1.56 ± 0.34	1.73 ± 0.36		437	251	46	140	-	30.8 ± 15.9	29.6 ± 20.3	36.4 ± 19.7	-	175/76	24/22	72/68	-				
Pan J	2013	China	B	C	-	-	2.24 ± 0.27	2.23 ± 0.26			115	59	56	-	-	49.37 ± 14.2	49.32 ± 13.7	-	-	37/22	36/20	-	-				

Kirac M	2013	Turkey	B C - -	1.1 ± 0.22	1.02 ± 0.29	73	37	36	- -	41.02 ± 10.3	37.8 ± 8.7	-	-	25/12	22/14	-	-
Ganesamoni R	2013	India	C H - -	1.04 ± 0.25	1.1 ± 0.23	70	35	35	- -	43.7 ± 12.1	38.6 ± 14.6	-	-	24/11	22/13	-	-
Aminsharifi A	2013	Iran	D I - -	3.66 ± 0.7	3.53 ± 0.73	60	30	30	- -	45.3 ± 14.8	43.8 ± 15.0	-	-	17/13	20/10	-	-
Tefekli A	2012	Turkey	D I - -	7.18 ± 1.51	7.46 ± 2.25	52	26	26	- -	37.12 ± 10.02 (21–52)	36.54 ± 11.09 (22–50)	-	-	NR	NR	-	-
Bryniarski P	2012	Poland	C D - -	4.14 ± 1.5	3.53 ± 1.7	64	32	32	- -	53.4 ± 12.4	51.8 ± 11.8	-	-	15/17	16/16	-	-
Akman T	2012	Turkey	C D - -	NR	NR	56	28	28	- -	68.9 ± 4.1	68.8 ± 3.7	-	-	13/15	16/12	-	-
Koo V	2011	UK	A F - -	NR	NR	88	51	37	- -	51.2 ± 14.9	56.6 ± 15.9	-	-	35/16	22/15	-	-
Deem S	2011	USA	A D - -	1.22 ± 0.14	1.29 ± 0.2	32	12	20	- -	52.25±14.07 (28,74)	47.20 ± 14.88 (25,73)	-	-	6/6	11/9	-	-
Al-Hunayan A	2011	Kuwait	D I - -	2.4 ± 0.4	2.5 ± 0.4	105	50	55	- -	38.5 ± 11.9	41.2 ± 11.7	-	-	28/22	32/23	-	-
Goel A	2003	India	D I - -	4.1 (3.5-5.2)	3.6 (3.2-4.5)	28	12	16	- -	41.4 (20-62)	38.9 (21-60)	-	-	8/4	10/6	-	-

**Notes:** T=treatment; A=SWL: extracorporeal shockwave lithotripsy; B=Mini-PCNL: minimally invasive percutaneous nephrolithotomy; C=RIRS: retrograde intrarenal surgery; D=Standard PCNL: Standard percutaneous nephrolithotomy; E=Open AN: open anatomic nephrolithotomy; F=URS: ureterorenoscopy; G=URS + RIRS; H=Microperc: micro-percutaneous nephrolithotomy; I=laparoscopic pyelolithotomy.

**Supplementary Table 2.** Odds ratios (95%CI)s of nine treatment modalities of Stone-free rate, Blood transfusion, Auxiliary Procedures and Fever.

Stone-free rate								
<b>SWL</b>	<b>3.38 (1.23, 9.53)</b>	1.87 (0.79, 4.59)	<b>5.27 (1.85, 15.56)</b>	<b>226.29 (12.03, 11174.</b>	1.19 (0.38, 3.47)	<b>858.15 (49.13, 44437.</b>	1.68 (0.29, 10.89)	<b>104.56 (15.26, 1354.</b>
<b>0.30 (0.10, 0.81)</b>	<b>Mini-PCNL</b>	0.55 (0.20, 1.50)	1.53 (0.42, 6.18)	<b>67.43 (3.23, 3426.67)</b>	0.36 (0.08, 1.42)	<b>249.35 (12.07, 13369.</b>	0.50 (0.08, 3.29)	<b>31.06 (3.81, 435.09)</b>
0.53 (0.22, 1.27)	1.83 (0.66, 4.91)	<b>RIRS</b>	2.82 (0.93, 9.02)	<b>122.91 (6.49, 5859.48)</b>	0.63 (0.16, 2.29)	<b>463.59 (23.71, 26312.</b>	0.90 (0.15, 5.89)	<b>57.08 (7.79, 741.44)</b>
<b>0.19 (0.06, 0.54)</b>	0.65 (0.16, 2.35)	0.35 (0.11, 1.08)	<b>Standard PCNL</b>	<b>43.09 (2.89, 1862.68)</b>	0.23 (0.06, 0.79)	<b>167.57 (7.96, 8649.62)</b>	0.32 (0.04, 2.51)	<b>20.20 (3.83, 189.36)</b>
<b>0.00 (0.00, 0.08)</b>	<b>0.01 (0.00, 0.31)</b>	<b>0.01 (0.00, 0.15)</b>	<b>0.02 (0.00, 0.35)</b>	<b>Open AN</b>	0.01 (0.00, 0.11)	3.79 (0.03, 529.39)	<b>0.01 (0.00, 0.24)</b>	0.47 (0.01, 9.55)
0.84 (0.29, 2.60)	2.82 (0.71, 12.02)	1.58 (0.44, 6.10)	<b>4.42 (1.27, 17.15)</b>	<b>196.38 (9.22, 9922.98)</b>	<b>URS</b>	<b>708.90 (49.85, 29586.</b>	1.42 (0.19, 11.75)	<b>90.15 (11.58, 1262.8</b>
<b>0.00 (0.00, 0.02)</b>	<b>0.00 (0.00, 0.08)</b>	<b>0.00 (0.00, 0.04)</b>	<b>0.01 (0.00, 0.13)</b>	0.26 (0.00, 31.55)	<b>0.00 (0.00, 0.02)</b>	<b>URS + RIRS</b>	<b>0.00 (0.00, 0.06)</b>	0.13 (0.00, 5.87)
0.59 (0.09, 3.42)	2.02 (0.30, 12.74)	1.12 (0.17, 6.71)	3.13 (0.40, 22.38)	<b>137.05 (4.20, 8788.58)</b>	0.70 (0.09, 5.34)	<b>526.11 (17.88, 35839.</b>	<b>Microperc</b>	<b>61.01 (4.96, 1323.47)</b>
<b>0.01 (0.00, 0.07)</b>	<b>0.03 (0.00, 0.26)</b>	<b>0.02 (0.00, 0.13)</b>	<b>0.05 (0.01, 0.26)</b>	2.14 (0.10, 84.38)	<b>0.01 (0.00, 0.09)</b>	7.96 (0.17, 600.77)	<b>0.02 (0.00, 0.20)</b>	<b>LP</b>
Blood transfusion								
<b>SWL</b>	<b>23.46 (3.23, 176.0</b>	3.68 (0.58, 28.00)	<b>21.18 (2.80, 254.9</b>	14.54 (0.97, 217.67)	19.15 (0.62, 766.78)			
<b>0.04 (0.01, 0.31)</b>	<b>Mini-PCNL</b>	<b>0.16 (0.03, 0.95)</b>	0.88 (0.10, 11.81)	0.60 (0.06, 7.75)	0.75 (0.03, 33.64)			
0.27 (0.04, 1.74)	<b>6.26 (1.05, 37.68)</b>	<b>RIRS</b>	<b>5.60 (1.03, 42.94)</b>	3.84 (0.27, 53.56)	4.99 (0.22, 171.62)			
<b>0.05 (0.00, 0.36)</b>	1.13 (0.08, 10.19)	<b>0.18 (0.02, 0.98)</b>	<b>Standard PCNL</b>	0.69 (0.03, 13.29)	0.88 (0.05, 14.21)			
0.07 (0.00, 1.03)	1.66 (0.13, 17.83)	0.26 (0.02, 3.64)	1.46 (0.08, 34.04)	<b>Microperc</b>	1.33 (0.02, 86.65)			
0.05 (0.00, 1.60)	1.33 (0.03, 39.91)	0.20 (0.01, 4.54)	1.13 (0.07, 18.79)	0.75 (0.01, 44.28)	<b>LP</b>			
Auxiliary Procedures								
<b>SWL</b>	<b>0.18 (0.08, 0.46)</b>	<b>0.44 (0.23, 0.83)</b>	<b>0.23 (0.07, 0.78)</b>	1.82 (0.55, 5.60)	<b>0.04 (0.01, 0.26)</b>	0.50 (0.18, 1.55)		
<b>5.47 (2.19, 12.64)</b>	<b>Mini-PCNL</b>	2.37 (0.87, 6.01)	1.24 (0.27, 4.95)	<b>9.74 (2.20, 36.88)</b>	0.20 (0.02, 1.50)	2.78 (0.82, 9.47)		

<b>2.29 (1.21, 4.37)</b>	0.42 (0.17, 1.15)	<b>RIRS</b>	0.50 (0.14, 1.89)	<b>4.17 (1.03, 14.75)</b>	<b>0.09 (0.01, 0.65)</b>	1.14 (0.43, 3.51)
<b>4.43 (1.29, 15.36)</b>	0.80 (0.20, 3.72)	2.00 (0.53, 7.19)	<b>Standard PCNL</b>	<b>8.13 (1.36, 42.82)</b>	0.17 (0.02, 1.70)	2.26 (0.50, 11.67)
0.55 (0.18, 1.81)	<b>0.10 (0.03, 0.45)</b>	0.24 (0.07, 0.97)	<b>0.12 (0.02, 0.73)</b>	<b>URS</b>	<b>0.02 (0.00, 0.10)</b>	0.28 (0.07, 1.40)
<b>26.51 (3.88, 186.75)</b>	4.94 (0.67, 42.01)	<b>11.48 (1.53, 91.60)</b>	5.74 (0.59, 61.65)	<b>48.38 (10.16, 246.93)</b>	<b>URS + RIRS</b>	<b>13.49 (1.57, 130.68)</b>
1.98 (0.64, 5.41)	0.36 (0.11, 1.22)	0.88 (0.29, 2.33)	0.44 (0.09, 2.01)	3.58 (0.71, 15.15)	<b>0.07 (0.01, 0.64)</b>	<b>Microperc</b>
<b>Fever</b>						
<b>SWL</b>	1.99 (0.47, 7.72)	1.19 (0.23, 5.79)	1.12 (0.13, 10.04)	0.78 (0.10, 4.62)	0.29 (0.01, 5.29)	
0.50 (0.13, 2.14)	<b>Mini-PCNL</b>	0.57 (0.14, 2.51)	0.57 (0.08, 4.53)	0.40 (0.06, 2.35)	0.14 (0.01, 2.47)	
0.84 (0.17, 4.37)	1.75 (0.40, 7.30)	<b>RIRS</b>	1.00 (0.24, 4.42)	0.66 (0.12, 2.74)	0.24 (0.02, 2.74)	
0.89 (0.10, 7.55)	1.75 (0.22, 12.47)	1.01 (0.23, 4.23)	<b>Standard PCNL</b>	0.64 (0.09, 4.04)	0.24 (0.03, 1.69)	
1.28 (0.22, 10.06)	2.51 (0.43, 17.63)	1.52 (0.37, 8.16)	1.56 (0.25, 10.59)	<b>Microperc</b>	0.37 (0.02, 5.70)	
3.39 (0.19, 80.53)	7.10 (0.40, 133.68)	4.17 (0.36, 55.10)	4.18 (0.59, 34.60)	2.72 (0.18, 41.10)	<b>LP</b>	

Notes: 95%CI=95%confidence intervals; SWL: extracorporeal shockwave lithotripsy; Mini-PCNL: minimally invasive percutaneous nephrolithotomy; RIRS: retrograde intrarenal surgery; Standard PCNL: Standard percutaneous nephrolithotomy; Open AN: Open anatomic nephrolithotomy; URS: ureterorenoscopy; Microperc: micro-percutaneous nephrolithotomy; LP: laparoscopic pyelolithotomy

**Supplementary Table 3.** Weighted mean difference (WMD) and 95%CI of nine treatment modalities of Operative time(minutes), Hospital stay(days), Fluoroscopy time(seconds)and Hemoglobin level(mg/dl).

**Operative time(minutes)**

<b>SWL</b>	18.01 (-18.70, 55.90)	13.98 (-24.20, 51.94)	13.86 (-32.88, 60.28)	<b>94.28 (18.94, 166.96)</b>	11.94 (-46.41, 71.91)	47.56 (-39.43, 135.21)	1.76 (-48.59, 51.23)	<b>74.20 (19.74, 128.70)</b>
-18.01 (-55.90, 18.70)	<b>Mini-PCNL</b>	-3.88 (-32.55, 23.76)	-4.36 (-40.92, 32.91)	<b>76.56 (5.90, 144.81)</b>	-5.58 (-55.48, 44.32)	30.06 (-52.13, 110.94)	-15.98 (-58.36, 24.57)	<b>56.33 (9.19, 104.78)</b>
-13.98 (-51.94, 24.20)		3.88 (-23.76, 32.55)	0.02 (-28.45, 28.83)	<b>80.50 (14.35, 143.33)</b>	-1.41 (-53.49, 49.99)	33.64 (-47.44, 115.71)	-12.14 (-50.20, 23.58)	<b>60.53 (20.02, 101.16)</b>
-13.86 (-60.28, 32.88)		4.36 (-32.91, 40.92)	-0.02 (-28.83, 28.45)	<b>80.61 (20.28, 137.83)</b>	-1.51 (-53.44, 48.27)	33.82 (-47.80, 114.94)	-11.94 (-53.83, 28.42)	<b>60.49 (30.99, 90.42)</b>
-94.28 (-166.96, -18.94)		<b>-76.56 (-144.81, -5.90)</b>	<b>-80.50 (-143.33, -14.35)</b>	<b>-80.61 (-137.83, -20.28)</b>	<b>-82.76 (-158.85, -4.50)</b>	-46.15 (-147.13, 54.75)	<b>-92.46 (-164.37, -20.57)</b>	-19.80 (-78.97, 42.20)
-11.94 (-71.91, 46.41)		5.58 (-44.32, 55.48)	1.41 (-49.99, 53.49)	1.51 (-48.27, 53.44)	<b>82.76 (4.50, 158.85)</b>	35.62 (-29.26, 101.07)	-10.41 (-70.03, 48.12)	<b>61.87 (4.36, 122.32)</b>
-47.56 (-135.21, 39.43)		-30.06 (-110.94, 52.13)	-33.64 (-115.71, 47.44)	-33.82 (-114.94, 47.80)	46.15 (-54.75, 147.13)	-35.62 (-101.07, 29.26)	<b>URS + RIRS</b>	-46.05 (-135.65, 40.59)
-1.76 (-51.23, 48.59)		15.98 (-24.57, 58.36)	12.14 (-23.58, 50.20)	11.94 (-28.42, 53.83)	<b>92.46 (20.57, 164.37)</b>	10.41 (-48.12, 70.03)	46.05 (-40.59, 135.65)	<b>Microperc</b>
-74.20 (-128.70, -19.74)		<b>-56.33 (-104.78, -9.19)</b>	<b>-60.53 (-101.16, -20.02)</b>	<b>-60.49 (-90.42, -30.99)</b>	19.80 (-42.20, 78.97)	<b>-61.87 (-122.32, -4.36)</b>	-26.61 (-113.64, 60.67)	<b>-72.49 (-122.98, -22.62)</b>
<b>LP</b>								

**Hospital stay(days)**

<b>SWL</b>	<b>2.05 (0.46, 3.72)</b>	0.25 (-1.75, 2.15)	1.91 (-0.06, 4.00)	<b>4.48 (1.74, 7.44)</b>	<b>2.04 (0.39, 3.73)</b>	<b>3.12 (0.43, 5.93)</b>	0.81 (-1.53, 3.25)	<b>2.45 (0.32, 4.84)</b>
<b>-2.05 (-3.72, -0.46)</b>	<b>Mini-PCNL</b>	<b>-1.79 (-3.17, -0.53)</b>	-0.14 (-1.62, 1.48)	<b>2.44 (0.04, 5.05)</b>	-0.01 (-1.47, 1.52)	1.08 (-1.55, 3.75)	-1.25 (-3.16, 0.75)	0.41 (-1.38, 2.33)
-0.25 (-2.15, 1.75)	<b>1.79 (0.53, 3.17)</b>	<b>RIRS</b>	<b>1.66 (0.66, 2.92)</b>	<b>4.22 (2.15, 6.71)</b>	<b>1.80 (0.18, 3.55)</b>	<b>2.87 (0.20, 5.75)</b>	0.55 (-0.91, 2.18)	<b>2.21 (0.86, 3.84)</b>

-1.91 (-4.00, 0.06)	0.14 (-1.48, 1.62) <b>-1.66 (-2.92, -0.66)</b>	<b>Standard PCNL</b>	<b>2.56 (0.66, 4.59)</b>	0.14 (-1.58, 1.70) 1.21 (-1.62, 3.90) -1.10 (-2.73, 0.38) 0.55 (-0.40, 1.56)
<b>-4.48 (-7.44, -1.74)</b>	<b>-2.44 (-5.05, -0.04)</b>	<b>-2.56 (-4.59, -0.66)</b>	<b>Open AN</b>	-3.69 (-6.31, -1.36 (-5.18, 0.05) 1.32) -2.02 (-4.03, -0.13)
<b>-2.04 (-3.73, -0.39)</b>	0.01 (-1.52, 1.47) <b>-1.80 (-3.55, -0.18)</b>	-0.14 (-1.70, 1.58) 2.42 (-0.05, 5.18) <b>URS</b>	1.09 (-1.10, 3.23) -1.23 (-3.44, 0.89) 0.42 (-1.41, 2.42)	
<b>-3.12 (-5.93, -0.43)</b>	-1.08 (-3.75, 1.55) <b>-2.87 (-5.75, -0.20)</b>	-1.21 (-3.90, 1.62) 1.36 (-1.88, 4.84) <b>URS + RIRS</b>	-1.09 (-3.23, 1.10) -2.31 (-5.39, 0.71) -0.66 (-3.50, 2.30)	
-0.81 (-3.25, 1.53)	1.25 (-0.75, 3.16) -0.55 (-2.18, 0.91)	1.10 (-0.38, 2.73) <b>3.69 (1.32, 6.31)</b>	1.23 (-0.89, 3.44) 2.31 (-0.71, 5.39) <b>Microperc</b>	1.65 (-0.10, 3.57)
<b>-2.45 (-4.84, -0.32)</b>	-0.41 (-2.33, 1.38) <b>-2.21 (-3.84, -0.86)</b>	-0.55 (-1.56, 0.40) <b>2.02 (0.13, 4.03)</b>	-0.42 (-2.42, 1.41) 0.66 (-2.30, 3.50) -1.65 (-3.57, 0.10) <b>LP</b>	

#### Fluoroscopy time(seconds)

<b>SWL</b>	126.39 (-38.51, 282.99)	26.64 (-174.14, 223.85)	154.37 (-78.50, 389.69)	131.08 (-162.82, 416.16)
-126.39 (-282.99, 38.51)	<b>Mini-PCNL</b>	-98.86 (-218.15, 18.73)	28.52 (-138.16, 200.75)	4.32 (-231.77, 245.22)
-26.64 (-223.85, 174.14)	98.86 (-18.73, 218.15)	<b>RIRS</b>	<b>128.52 (9.98, 250.70)</b>	103.92 (-97.09, 304.80)
-154.37 (-389.69, 78.50)	-28.52 (-200.75, 138.16)	<b>-128.52 (-250.70, -9.98)</b>	<b>Standard PCNL</b>	-23.93 (-190.22, 135.72)
-131.08 (-416.16, 162.82)	-4.32 (-245.22, 231.77)	-103.92 (-304.80, 97.09)	23.93 (-135.72, 190.22)	<b>Microperc</b>

#### Hemoglobin level(mg/dl)

<b>Mini-PCNL</b>	-0.50 (-1.52, 0.52)	-0.50 (-1.59, 0.59)	-0.49 (-1.61, 0.63)	-0.53 (-1.70, 0.66)
0.50 (-0.52, 1.52)	<b>RIRS</b>	-0.00 (-0.37, 0.36)	0.01 (-0.49, 0.51)	-0.03 (-0.64, 0.59)
0.50 (-0.59, 1.59)	0.00 (-0.36, 0.37)	<b>Standard PCNL</b>	0.01 (-0.61, 0.65)	-0.03 (-0.51, 0.47)
0.49 (-0.63, 1.61)	-0.01 (-0.51, 0.49)	-0.01 (-0.65, 0.61)	<b>Microperc</b>	-0.04 (-0.85, 0.74)
0.53 (-0.66, 1.70)	0.03 (-0.59, 0.64)	0.03 (-0.47, 0.51)	0.04 (-0.74, 0.85)	<b>LP</b>

Notes : 95%CI=95% confidence intervals; SWL: extracorporeal shockwave lithotripsy; Mini-PCNL: minimally invasive percutaneous nephrolithotomy; RIRS: retrograde intrarenal surgery; Standard PCNL: Standard percutaneous nephrolithotomy; Open AN: Open anatomic nephrolithotomy; URS: ureterorenoscopy; Microperc: micro-percutaneous nephrolithotomy; LP: laparoscopic pyelolithotomy