

Supplement Table 1 Details of RPD patients with specific diagnosis

Case	No.	Gender	APPD(mm)		CAKUT (Side)	Management	Surgery age (m)	Post operation condition
			Left	Right				
1	GXN	M	21	-	UPJO (L)	Pyeloplasty	1.5	RPD alleviated distinctly DRF 40.5%(6 mths after)
2	LZY	M	-	38	UPJO (R)	Pyeloplasty	1.5	RPD alleviated distinctly
3	WZC	M	8	60	UPJO(R)	External drainage+ Pyeloplasty	1.6	RPD alleviated distinctly
4	CJ	M	24	-	UPJO (L)	Pyeloplasty	8.0	RPD alleviated distinctly
5	GYX	M	-	21	UPJO (R)	Pyeloplasty	2.0	RPD alleviated distinctly DRF 46.6% (6 mths after)
6	ZCX	M	11	9	UPJO (L)	Follow-up	-	

7	ZXY	F	14	7	RD (Bi) Ureterectasia (L) Ureterocele (L)	Transurethral endoscopic unroofing of ureteroceles	2.0	RPD and Ureterectasia alleviated No UTI DRF normal
8	ZWS	M	8	-	RD with ipsilateral severe RPD and ectopic ureteral orifice (L)	Ureteral reimplantation	27.0	RPD and Ureterectasia alleviated DRF normal
9	JFR	M	12	-	RD(L) RD+ upper UPJO	LUPPN	36.0	RPD alleviated distinctly
10	ZSR	F	-	15	MU(R)	Ureteral reimplantation	27.0	Ureterectasia alleviated DRF<40%
11	JHB	M	8	-	MU(L)	Follow-up	-	

L: Left; R: Right; Bi: Bilateral; MU: Megaureter; RD: Renal duplication; DRF: differential renal function; LUPPN: laparoscopic upper pole partial nephrectomy.