



Figure S1 Flow chart of study participants.

Table S1 Risk factors of PD-associated peritonitis before propensity score matching after excluding participants with PD-associated peritonitis within the first three months of follow-up

Variables	Univariate analysis			Multivariate analysis		
	HR	95%CI	P value	HR	95%CI	P value
Age (years)	1.018	0.999-1.036	0.063	1.008	0.985-1.032	0.494
Male	0.839	0.500-1.406	0.505	1.091	0.559-2.128	0.799
Use of Roxadustat medication	0.284	0.164-0.493	<0.001	0.375	0.177-0.793	0.010
Diabetes	1.715	0.974-3.021	0.062	1.877	0.895-3.935	0.096
Hypertension	0.853	0.309-2.357	0.759	0.834	0.239-2.917	0.777
PD vintage (months)	0.993	0.984-1.003	0.173	0.985	0.968-1.002	0.092
BMI (kg/m ²)	0.961	0.876-1.054	0.397			
24-h Urine volume (ml/24h)	1.000	1.000-1.001	0.388			
Presence of RRF	0.993	0.508-1.941	0.984			
UF volume (ml/24h)	1.000	1.000-1.001	0.147			
KT/V	1.175	0.874-1.579	0.286			
Serum creatinine (μmol/L)	1.000	0.999-1.000	0.316			
BUN (mmol/L)	0.988	0.959-1.018	0.442			
C-reactive protein (mg/L)	0.996	0.982-1.011	0.607			
White blood cell (10 ⁹ /L)	0.990	0.874-1.121	0.876			
Hemoglobin (g/L)	1.011	0.999-1.023	0.069	1.002	0.986-1.018	0.846
Neutrophil (10 ⁹ /L)	1.042	0.883-1.229	0.629			
Potassium (mmol/L)	0.791	0.544-1.151	0.220	0.883	0.531-1.471	0.634
iPTH (pg/ml)	1.000	1.000-1.001	0.695			
Albumin (g/L)	0.956	0.909-1.006	0.086	0.954	0.887-1.027	0.209
Prealbumin (mg/L)	1.000	0.997-1.003	0.999			
Serum iron (μmol/L)	0.987	0.947-1.028	0.516			
Ferritin (ug/L)	1.000	0.999-1.001	0.926			
Fasting glucose (mmol/L)	1.028	0.901-1.172	0.684			
Total cholesterol (mmol/L)	1.038	0.920-1.171	0.545			
Triglycerides (mmol/L)	1.108	0.943-1.302	0.214			

HR, hazard ratio; CI, confidence interval; PD, peritoneal dialysis; BMI, body mass index; RRF, residual renal function; UF volume, ultrafiltration volume; KT/V, urea clearance index; BUN, Blood urea nitrogen; iPTH, intact parathyroid hormone.