



Supplemental Materials for

Association of Pulmonary Hypertension with Mortality in Incident Peritoneal Dialysis Patients

Qingdong Xu, Liping Xiong, Li Fan, Fenghua Xu, Yan Yang, Huiyan Li, Xuan Peng, Shirong Cao, Zhihua Zheng, Xiao Yang, Xueqing Yu, Haiping Mao

Haiping Mao, M.D. & Ph.D.

Professor of Medicine

Department of Nephrology, The First Affiliated Hospital, Sun Yat-sen University

58 Zhongshan Road II, Guangzhou, China, 510080

Tel: 86-20-87335563, E-mail: haipingmao@126.com



Supplemental Table1:

The multivariable linear model testing the multicollinearity of the variables regarding cardiac measures

	LAD	LVEF	LVH	LVDD
VIF	1.1338	1.0816	1.0933	1.0244
Sqrt (VIF)	1.0648	1.0400	1.0456	1.0121

Supplemental Table 2:

Table S2. Univariate Cox regression analysis showing factors associated with all-cause and cardiovascular mortality in peritoneal dialysis patients

	All-Cause Mortality		Cardiovascular Mortality	
	HR (95%CI)	<i>P</i> -value	HR (95%CI)	<i>P</i> -value
Pulmonary hypertension	2.45 (1.59 - 3.76)	< 0.001*	3.39(1.98-5.81)	< 0.001*
Age (1 year)	1.06 (1.04 - 1.08)	< 0.001*	1.06(1.04-1.09)	< 0.001*
Female	1.25 (0.83 - 1.88)	0.280	1.21(0.72-2.06)	0.474
BMI (1 kg/m ²)	1.00 (0.94 – 1.07)	0.932	0.98(0.90-1.07)	0.641



Presence of diabetes	3.21 (2.13 – 4.85)	< 0.001*	3.43(2.00-5.86)	< 0.001*
Baseline CVD	1.71 (1.14- 2.58)	0.01*	1.90(1.12-3.23)	0.017*
eGFR (<i>1 ml/min/1.73m²</i>)	1.04 (0.97 – 1.12)	0.289	0.98(0.88-1.08)	0.672
MAP (<i>1 mmHg</i>)	1.01 (0.99 -1.02)	0.481	1.01(0.99-1.03)	0.304
Hemoglobin (<i>1 g/L</i>)	0.99 (0.98-1.01)	0.179	0.99(0.97-1.00)	0.135
hs-CRP (<i>1 mg/L</i>)	1.04 (1.00-1.09)	0.043*	1.06(1.01-1.12)	0.027*
Serum albumin (<i>1 g/L</i>)	0.96 (0.92 -1.00)	0.057	0.92(0.87-0.98)	0.004*
Total cholesterol (<i>1 mmol/L</i>)	1.04 (0.91 -1.19)	0.562	1.04 (0.87 -1.24)	0.669
Triglycerides (<i>1 mmol/L</i>)	1.10 (0.96 -1.26)	0.177	1.10 (0.96 -1.26)	0.177
Phosphorus (<i>1 mmol/L</i>)	1.08 (0.73 -1.59)	0.703	0.97 (0.60 -1.57)	0.905
Calcium (<i>1 mmol/L</i>)	1.77 (0.81 -3.89)	0.154	1.37 (0.48 -3.89)	0.551
iPTH (<i>1 pg/mL</i>)	0.99 (0.98 -1.00)	0.008*	0.99 (0.98 -1.00)	0.105
Na (<i>1 mmol/L</i>)	0.96 (0.92-1.00)	0.044*	0.96(0.91-1.01)	0.131
LAD (<i>1 mm</i>)	1.04 (1.02 - 1.07)	0.002*	1.06(1.02-1.09)	0.002*
LVEF (<i>per 1%</i>)	0.98 (0.97 - 1.00)	0.048*	0.97(0.95-0.99)	0.006*
LVH	1.65 (0.93 – 2.92)	0.086	2.42 (1.03 - 5.66)	0.042*
LVDD	1.21 (0.56 - 2.65)	0.631	1.37 (0.54 - 3.47)	0.511



Abbreviations: BMI, body mass index; CVD, cardiovascular disease; eGFR, estimate glomerular filtration rate; MAP, mean arterial pressure; hs-CRP, high-sensitivity C-reactive protein; iPTH, intact parathyroid hormone; Na, serum sodium; LAD, left atrial diameter; LVEF, left ventricular ejection fraction; LVH, left ventricular hypertrophy; LVDD, left ventricular diastolic dysfunction.

Supplemental Table 3:

Table S3. C-index for Cox regression models predicting all-cause and cardiovascular mortality

	C-index (95% CI)	P-value
All-cause mortality		
Established risk factors	0.777 (0.723-0.831)	Ref.
Established risk factors plus PH	0.778 (0.723-0.832)	0.01
Cardiovascular mortality		
Established risk factors	0.839 (0.790-0.888)	Ref.
Established risk factors plus PH	0.842 (0.793-0.891)	0.001



Established risk factors included age, sex, history of diabetes and CVD, MAP, BMI, eGFR, Hemoglobin, hs-CRP, albumin, total cholesterol, triglycerides, phosphorus, calcium, iPTH, Na, LAD, LVEF, LVDD and LVH

