

Supplementary Data

The Calculation of Sample Size for the Secondary Objective

- The secondary objective of this study was to predict all-cause mortality in chronic hemodialysis patients classified by using ULC from lung USG protocol. According to literature review, one-year survival rate of mild to moderate lung congestion was 90% but remained only 60% in severe lung congestion group. Therefore, we calculated sample size by comparing survival rate between these two groups using Log-rank test. Z-score was specified as 1.96 and power ($1-\beta$) was 80%, so the sample size was 49 patients per group. Dropout rate was determined as 20%, thereby the total participant in this study should be 120 patients.

Supplement Table 1 Intradialytic findings in each ULC group

Intradialytic findings	ULC numbers			P-value
	Mild-to-moderate 15–29 (n=4)	Severe 30–59 (n=28)	Very severe ≥ 60 (n=4)	
Pre-dialysis SBP, mmHg	159.0±15.2	154.5±24.7	122.2±32.7	0.06
Pre-dialysis DBP, mmHg	88.7±20.2	80.3±18.8	68.0±20.5	0.19
Post-dialysis SBP, mmHg	156.7±12.3	151.7±22.3	136.7±25.6	0.38
Post-dialysis DBP, mmHg	85.2±17.0	77.4±12.2	72.5±19.1	0.45
Ultrafiltration, ml	3,850±1,139	2,698±946	2,750±823	0.09
Ultrafiltration rate, ml/kg/h	13.16±1.75	11.12±3.20	12.77±4.09	0.36
Pre-dialysis weight, kg	77.53±23.08	64.58±18.99	57.43±12.42	0.31
Post-dialysis weight, kg	73.95±22.21	61.99±18.38	54.78±11.88	0.33
IDWG, %	5.2±0.6	4.6±1.6	4.0±1.5	0.53
% of HD sessions with intradialytic hypotension episodes	0 (0, 0)	0.6 (0, 4.3)	2.6 (0.6, 3.0)	0.10
% of HD sessions with intradialytic hypertension episodes	2.2 (0.2, 30.3)	17 (6.7, 26.1)	9.3(0.6, 33.3)	0.27
Patients with intradialytic hypertension episodes>10% in 12 months	1 (25%)	19 (67.9%)	2 (50%)	0.23
% of HD sessions with cramps	0 (0, 0.5)	0 (0, 0.6)	0 (0, 4.3)	0.90

Abbreviations: interdialytic weight gain (IDWG), hemodialysis (HD).