



Supplementary Figure 1. Scatter plot for the correlation between relative overhydration and leg edema (right, left). HD, hemodialysis.

Supplementary Table 1. Logit value generation for propensity score matching

Variable	B	SE	Wald	P	$Exp(B)$
Age	0.104	0.009	139.000	0.000**	1.109 (1.090–1.129)
Male	0.892	0.272	10.726	0.001**	2.440 (1.431–4.162)
Height	–0.077	0.017	20.648	0.000**	0.926 (0.895–0.957)
Intercept	2.681	2.871	0.872	0.350	14.599

SE, standard error.

** $P < 0.01$.

Logit = 2.681 + (0.104) × age + (0.892) × gender (male) + (–0.077) × body mass index (kg/m²).

Supplementary Table 2. Correlation between relative over-hydration and laboratory markers

Variable	<i>r</i>	<i>P</i>
CT ratio	0.425	0.000**
Edema		
Left	0.380	0.022*
Right	0.393	0.010**
WBC ($10^3/\text{mm}^3$)	-0.26	0.001**
Platelet ($10^3/\text{mm}^3$)	-0.341	0.000**
Protein (g/dL)	-0.381	0.000**
Albumin (g/dL)	-0.36	0.000**
AST (IU/L)	0.338	0.000**
ALP (IU/L)	0.184	0.026*
BUN (mg/dL)	-0.301	0.000**
Creatinine (mg/dL)	-0.452	0.000**
Uric acid (mg/dL)	-0.312	0.000**
Sodium (mmol/L)	0.179	0.030*
Potassium (mmol/L)	-0.182	0.027*
Phosphorus (mg/dL)	-0.371	0.000**
Triglyceride (mg/dL)	-0.23	0.007**
TIBC ($\mu\text{g}/\text{dL}$)	-0.283	0.001**
PTH (pg/mL)	-0.312	0.005**

ALP, alkaline phosphatase; AST, aspartate aminotransferase; BUN, blood urea nitrogen; CT, cardiothoracic; PTH, parathyroid hormone; TIBC, transferrin iron binding capacity; WBC, white blood cell.

* $P < 0.05$, ** $P < 0.01$.

Supplementary Table 3. Changes in bioimpedance analysis components pre- and post-HD (n = 147)

Variable	Pre-HD	Post-HD	A (%)	B (%/kg)	<i>t</i>
ICW (L)	19.84 ± 4.12	19.06 ± 4.10	3.95	1.99	17.179
ECW (L)	13.40 ± 2.69	12.49 ± 2.62	6.74	4.26	22.831
TBW (L)	33.24 ± 6.76	31.55 ± 6.65	5.08	2.86	20.321
Protein (kg)	8.58 ± 1.79	8.24 ± 1.77	4.00	2.29	17.047
Mineral (kg)	3.05 ± 0.56	2.90 ± 0.55	5.02	2.43	14.402
Soft lean mass (kg)	42.35 ± 8.65	40.30 ± 8.52	4.84	2.74	19.849
Fat (kg)	15.69 ± 7.76	15.98 ± 7.89	-1.79	-0.36	-3.338
Waist-hip ratio	0.88 ± 0.09	0.91 ± 0.09	-3.38	-3.28	18.596
Body cell mass (kg)	28.42 ± 5.91	27.30 ± 5.87	3.97	2.02	17.375
Lean tissue index (kg/mL)	16.98 ± 1.96	16.14 ± 1.95	4.94	2.73	20.291
Normal hydrated weight (kg)	59.53 ± 11.86	58.03 ± 11.53	2.52	1.22	15.808

Data are presented as mean ± standard deviation.

ECW, extracellular water; HD, hemodialysis; ICW, intracellular water; TBW, total body water.

A = (pre - post)/pre (%), B = [(pre - post) / pre]/(pre weight - post weight) (%/kg).

P values are for comparisons between pre-HD and post-HD values; the *P* value of every variable was <0.001.