

Supplemental Table 1. Unadjusted and adjusted associations between baseline target weight misses considered proportionate to body weight and all-cause and cardiovascular mortality.^a

	All-cause mortality		Cardiovascular mortality	
	Unadjusted HR (95% CI)	Adjusted HR ^b (95% CI)	Unadjusted HR (95% CI)	Adjusted HR ^b (95% CI)
>2% body weight <u>above</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
>2% body weight <u>above</u> EDW in ≥30% ses	1.23 (1.13-1.35)	1.24 (1.13-1.36)	1.24 (1.08-1.43)	1.22 (1.05-1.41)
>2% body weight <u>below</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)	1.00 (ref.)
>2% body weight <u>below</u> EDW in ≥30% ses	1.26 (1.12-1.42)	1.17 (1.04-1.33)	1.51 (1.27-1.81)	1.49 (1.23-1.81)

^a The 2% cut-point was selected because the distribution of the differences between target weight and post-dialysis weight (above and below) were asymmetrically distributed. We thus considered above target weight miss and below target weight miss in quartiles and identified the 75th percentile (2% of body weight) as the cut-point.

^b Multivariable models contained exposure terms for both above and below weight and were adjusted for age, sex, race (black, non-black), coronary artery disease, heart failure, diabetes, vascular access type (fistula, graft, catheter), albumin (≤2.9, 3-3.9, ≥4.0 g/dL), phosphorus (mg/dL), hemoglobin (g/dL), equilibrated Kt/V, dialytic vintage (≤1.0, 1.1-1.9, 2.0-3.9, ≥4.0 years), prescribed treatment time (minutes), interdialytic weight gain (kilograms), pre-dialysis systolic blood pressure (≤130, 131-150, ≥151 mmHg), and missed dialysis treatments (0, 1, 2, ≥3). Since the exposures were indexed to post-dialysis weight, post-dialysis weight was excluded from the multivariable model.

Supplemental Table 2. Adjusted associations between baseline target weight misses considered proportionate to body weight and all-cause and cardiovascular mortality using varied thresholds to distinguish missed vs. achieved target weight.

	All-cause mortality Adjusted HR ^a (95% CI)	Cardiovascular mortality Adjusted HR ^a (95% CI)
>1% body weight <u>above</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>1% body weight <u>above</u> EDW in ≥30% ses	1.13 (1.04-1.23)	1.17 (1.02-1.33)
>1% body weight <u>below</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>1% body weight <u>below</u> EDW in ≥30% ses	1.17 (1.06-1.29)	1.43 (1.22-1.67)
>1.5% body weight <u>above</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>1.5% body weight <u>above</u> EDW in ≥30% ses	1.24 (1.14-1.35)	1.27 (1.11-1.46)
>1.5% body weight <u>below</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>1.5% body weight <u>below</u> EDW in ≥30% ses	1.15 (1.02-1.28)	1.42 (1.19-1.69)
>2% body weight <u>above</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>2% body weight <u>above</u> EDW in ≥30% ses	1.24 (1.13-1.36)	1.22 (1.05-1.41)
>2% body weight <u>below</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>2% body weight <u>below</u> EDW in ≥30% ses	1.17 (1.04-1.33)	1.49 (1.23-1.81)
>2.5% body weight <u>above</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>2.5% body weight <u>above</u> EDW in ≥30% ses	1.31 (1.19-1.45)	1.27 (1.08-1.49)
>2.5% body weight <u>below</u> EDW in <30% ses	1.00 (ref.)	1.00 (ref.)
>2.5% body weight <u>below</u> EDW in ≥30% ses	1.19 (1.03-1.36)	1.47 (1.20-1.82)

^aMultivariable models contained exposure terms for both above and below weight and were adjusted for age, sex, race (black, non-black), coronary artery disease, heart failure, diabetes, vascular access type (fistula, graft, catheter), albumin (≤2.9, 3-3.9, ≥4.0 g/dL), phosphorus (mg/dL), hemoglobin (g/dL), equilibrated Kt/V, dialytic vintage (≤1.0, 1.1-1.9, 2.0-3.9, ≥4.0 years), prescribed treatment time (minutes), interdialytic weight gain (kilograms), pre-dialysis systolic blood pressure (≤130, 131-150, ≥151 mmHg), and missed dialysis treatments (0, 1, 2, ≥3).

Supplemental Table 3. Missed target weight and all-cause and cardiovascular mortality multivariable model results.

	All-cause mortality	Cardiovascular mortality
	HR (95% CI)	HR (95% CI)
>2kg above target weight in $\geq 30\%$ tmts	1.28 (1.15-1.43)	1.26 (1.07-1.50)
>2kg below target weight in $\geq 30\%$ tmts	1.22 (1.05-1.40)	1.56 (1.26-1.93)
Age (per 10 years)	1.41 (1.37-1.40)	1.42 (1.35-1.49)
Female	0.85 (0.78-0.92)	0.84 (0.74-0.96)
Race		
Non-black	1.00 (ref.)	1.00 (ref.)
Black	0.80 (0.74-0.87)	0.78 (0.68-0.89)
Diabetes	1.04 (0.96-1.13)	1.14 (1.01-1.30)
Heart failure	0.98 (0.75-1.12)	1.11 (1.01-1.35)
Coronary artery disease	0.94 (0.84-1.05)	0.99 (0.83-1.17)
Vintage (years)		
≤ 1.0	1.00 (ref.)	1.00 (ref.)
1.1-1.9	1.26 (1.11-1.42)	1.33 (1.10-1.61)
2.0-3.9	1.36 (1.21-1.51)	1.26 (1.06-1.51)
≥ 4.0	1.56 (1.41-1.74)	1.55 (1.30-1.84)
Vascular access		
Fistula	1.00 (ref.)	1.00 (ref.)
Graft	1.18 (1.07-1.29)	1.23 (1.06-1.43)
Catheter	1.26 (1.14-1.39)	1.23 (1.05-1.44)
Post-HD weight (kg)		
≤ 62.7	1.00 (ref.)	1.00 (ref.)
62.8-74.0	0.73 (0.66-0.81)	0.78 (0.69-0.92)
74.1-88.9	0.60 (0.54-0.67)	0.57 (0.47-0.68)
≥ 89.0	0.58 (0.51-0.66)	0.58 (0.47-0.71)
Interdialytic weight gain (kg)	1.09 (1.04-1.13)	1.14 (1.07-1.22)
Prescribed treatment time (min)	1.00 (1.00-1.01)	1.00 (1.00-1.01)
Missed treatment		
0	1.00 (ref.)	1.00 (ref.)
1	1.01 (0.87-1.14)	0.87 (0.70-1.08)
2	1.14 (1.00-1.30)	1.15 (0.94-1.42)
≥ 3	1.25 (1.10-1.42)	1.19 (0.97-1.50)
Pre-HD SBP (mmHg)		
≤ 130	1.02 (0.94-1.11)	1.00 (0.87-1.14)
131-150	1.00 (ref.)	1.00 (ref.)
≥ 151	1.25 (1.10-1.42)	1.35 (1.13-1.62)
Equilibrated Kt/V	0.80 (0.70-0.92)	0.85 (0.68-1.05)
Albumin (g/dL)		
≤ 2.9	1.80 (1.54-2.10)	1.75 (1.35-2.27)
3-3.9	1.00 (ref.)	1.00 (ref.)
≥ 4.0	0.66 (0.60-0.71)	0.78 (0.68-0.88)
Phosphorus (mg/dL)	1.05 (1.02-1.08)	1.07 (1.03-1.11)
Hemoglobin (g/dL)	0.97 (0.94-1.00)	0.97 (0.93-1.02)