

Table S1A Baseline characteristics at admission in the total population and the four hemoglobin concentration from admission to discharge (Δ Hgb)-based subcategories

	Total (n = 2090)	Extreme hemodilution (n = 479)	Modest hemodilution (n = 555)	Modest hemoconcentration (n = 506)	Extreme hemoconcentration (n = 550)	p value (between groups)
Age, years ^{†,‡, ,§}	76.0 (65.0–83.0)	75.0 (63.0–83.0)	76.0 (67.0–84.0)	77.0 (67.0–83.0)	75.0 (63.0–82.0)	0.0020*
Men	1294 (61.9)	309 (64.5)	337 (60.7)	308 (60.8)	340 (61.8)	0.5828
SBP, mmHg ^{‡,§, ,§}	135 (118–158)	138 (116–168)	139 (120–162)	135 (118–151)	132 (115–151)	0.0008*
Resting HR, beats/min ^{‡,§}	90 (72–110)	95 (75–118)	90 (74–110)	87 (70–107)	90 (72–109)	0.0044*
CKD	1318 (63.0)	324 (67.6)	357 (64.3)	309 (61.0)	328 (59.6)	0.0389
Ischemic etiology ^{‡,§,}	594 (28.4)	161 (33.6)	173 (31.1)	117 (23.1)	143 (26.0)	0.0007*
Laboratory findings						
Hemoglobin, g/dL ^{†,‡,§,}	12.4 (10.9–13.9)	13.4 (12.1–14.9)	12.3 (10.9–13.7)	12.2 (10.6–13.5)	11.8 (10.4–13.4)	<0.0001*
Creatinine, mg/dL	1.00 (0.77–1.30)	1.03 (0.80–1.34)	1.00 (0.80–1.33)	0.96 (0.76–1.30)	0.94 (0.73–1.24)	0.0040*
BUN [§] , mg/dL	20.8 (16.0–28.3)	21.9 (16.6–30.2)	21.7 (16.4–29.0)	20.8 (16.1–27.6)	19.3 (14.7–26.5)	0.0001*
BUN/creatinine ratio	20.7 (16.8–26.1)	20.6 (16.3–27.0)	21.0 (17.1–25.8)	20.7 (17.0–25.8)	20.3 (16.6–26.2)	0.5556
Sodium, mEq/L ^{‡,§}	140.0 (138.0–142.0)	139.6 (137.0–142.0)	140.0 (1373.0–142.0)	140.0 (138.0–142.0)	140.0 (138.0–142.0)	0.0002*
Medications						
ACEI or ARBs	923 (44.5)	205 (42.9)	271 (49.3)	225 (44.9)	222 (40.6)	0.0293
Digoxin	173 (8.3)	34 (7.1)	43 (7.8)	44 (8.7)	52 (9.5)	0.5278
Loop diuretics	909 (43.8)	204 (42.7)	258 (47.1)	222 (44.2)	225 (41.2)	0.2362

Beta-blockers	914 (44.1)	189 (39.8)	249 (45.4)	234 (46.6)	242 (44.4)	0.1623
Tolvaptan	23 (1.4)	5 (1.3)	6 (1.3)	9 (2.2)	3 (0.7)	0.3540

Data are presented as mean \pm standard deviation or median (1st–3rd quartile) for continuous variables, and as number (percentage) for categorical variables. Inter-subcategory comparisons were performed using analysis of variance or Wilcoxon's signed-rank test for continuous variables, and the chi-square test for categorical variables.

SBP, systolic blood pressure; HR, heart rate; CKD, chronic kidney disease; BUN, blood urea nitrogen; ACE-I, angiotensin-converting enzyme; ARB, angiotensin receptor blocker.

† $P < 0.05$ for extreme hemodilution vs. modest hemodilution, ‡ $P < 0.05$ for extreme hemodilution vs. modest hemoconcentration, § $P < 0.05$ for extreme hemodilution vs. extreme hemoconcentration, || $P < 0.05$ for modest hemodilution vs. modest hemoconcentration, # $P < 0.05$ for modest hemodilution vs. extreme hemoconcentration, * $P < 0.05$ for modest hemoconcentration vs. extreme hemoconcentration.

Table S1B Baseline characteristics at discharge in the total population and four Δ Hgb-based subcategories

	Total (n = 2090)	Extreme hemodilution (n = 479)	Modest hemodilution (n = 555)	Modest hemoconcentration (n = 506)	Extreme hemoconcentration (n = 550)	p value (between groups)
Systolic BP, mmHg	110 (100–122)	110 (100–124)	110 (98–122)	110 (100–122)	110 (100–120)	0.4218
Resting HR, beats/min	70 (61–78)	70 (61–80)	70 (60–78)	70 (62–78)	70 (61–80)	0.4239
WRF (Δ Cr > 0.3)	211 (10.0)	55 (11.4)	64 (11.5)	43 (8.5)	49 (8.9)	0.2063
LVEF, %	44.0 (31.0–58.0)	43.0 (30.0–56.0)	42.0 (30.0–58.0)	45.0 (32.0–58.0)	45.0 (32.0–59.0)	0.0440
Laboratory findings						
Hemoglobin, g/dL ^{†, ‡, §, , #, **}	12.4 (10.9–13.9)	11.6 (10.5–12.9)	12.0 (10.7–13.4)	12.5 (11.0–14.0)	13.3 (11.9–15.0)	<0.0001*
Creatinine, mg/dL	1.10 (0.80–1.30)	1.00 (0.76–1.91)	1.01 (0.80–1.40)	1.00 (0.80–1.30)	0.99 (1.80–1.25)	0.1735

BUN, mg/dL	22.4 (16.7–31.0)	21.0 (16.0–29.6)	22.9 (16.7–32.0)	23.0 (16.8–31.5)	22.3 (17.5–30.7)	0.1628
BUN/creatinine ratio [§]	22.1 (17.5–27.3)	21.9 (16.4–26.9)	21.7 (17.6–26.7)	22.0 (17.4–27.4)	23.1 (18.4–28.7)	0.0052*
Sodium mEq/L	139.0 (137.0–141.0)	139.0 (137.0–141.0)	139.0 (137.0–141.0)	139.2 (137.0–141.0)	139.0 (137.0–141.0)	0.1213
Medications						
ACEI or ARBs	1,444 (69.0)	327 (68.2)	393 (70.8)	351 (69.3)	373 (67.8)	0.7148
Digoxin ^{‡, §, , #}	187 (8.9)	28 (5.85)	34 (6.13)	57 (11.2)	68 (12.3)	<0.0001*
Loop diuretics ^{†, ‡, §}	1,617 (77.4)	338 (70.)	444 (80.2)	393 (77.6)	442 (80.3)	0.0005*
Beta-blockers	1638 (78.4)	363 (75.7)	450 (81.0)	396 (78.2)	429 (78.1)	0.2267
Tolvaptan	51 (2.8)	12 (2.9)	13 (2.7)	17 (3.9)	9 (1.9)	0.3880

Data are presented as mean \pm standard deviation or median (1st–3rd quartile) for continuous variables, and as number (percentage) for categorical variables. Inter-subcategory comparisons were performed using analysis of variance or Wilcoxon's signed-rank test for continuous variables, and the chi-square test for categorical variables.

WRF, worsening renal function; EF, ejection fraction; LVEF, left ventricular ejection fraction.

[†] $P < 0.05$ for extreme hemodilution *vs.* modest hemodilution, [‡] $P < 0.05$ for extreme hemodilution *vs.* modest hemoconcentration, [§] $P < 0.05$ for extreme hemodilution *vs.* extreme hemoconcentration, ^{||} $P < 0.05$ for modest hemodilution *vs.* modest hemoconcentration, [#] $P < 0.05$ for modest hemodilution *vs.* extreme hemoconcentration, * $P < 0.05$ for modest hemoconcentration *vs.* extreme hemoconcentration.