Online-only material

Supplementary table 1. Decision criteria for the definition of extracellular fluid (ECF) volume based on the diameter and collapsibility of the inferior vena cava (IVC) on ultrasound evaluation.

ECF volume	IVC diameter	Collapsibility index
Reduced	< 10 mm	
	10 - 21 mm	> 75%
Preserved	10 - 21 mm	20 - 75%
Increased	> 21 mm	
	10-21 mm	< 20%

Supplementary table 2. Association between degree of neurological symptoms related to plasma hypotonicity and severe hyponatremia at presentation to the emergency department.

Hypotonicity symptoms	Overall (n=84)	Severe hyponatremia (n=29)	Non-severe hyponatremia (n=55)	p-value
Absent, n	40	11	29	
Mild to moderate,	35	12	23	
Severe, n	9	6	3	0.0503 for trend

Supplementary table 3. Association between the degree of hyponatremia and the class of diuretics administered to patients at home.

Diuretics	Overall (n=84)	Severe hyponatremia	Non-severe hyponatremia	p-value
		(n=29)	(n=55)	
No diuretics, n (%)	23 (27.4)	9 (31)	14 (25.4)	0.588
Thiazides	14 (16.7)	6 (20.7)	8 (14.5)	0.475
monotherapy, n				
(%)				
ENaC-i + HCT, n (%)	3 (9.5)	3 (10.3)	0 (0)	0.038
Loop diuretics	17 (20.2)	6 (54.5)	11 (20)	0.941
monotherapy, n				
(%)				
Loop diuretics +	24 (28.6)	4 (13.8)	20 (36.4)	0.031
MRA, n (%)				

Legend. ENaC-i, Epithelial sodium channel inhibitor; HCT, hydrochlorothiazide; MRA, mineralocorticoid receptor antagonist.

Supplementary Table 4. Causes of death of the 30 patients who died according to data from the National Institute of Statistics.

Causes of death	Overall (n, %)
Neoplastic cachexia	8 (26.7)
Heart failure	7 (23.3)
Respiratory failure	5 (16.7)
Senile cachexia	4 (13.3)
Septic shock	3 (10)
Acute myocardial infarction	1 (3.33)
Liver cirrhosis	1 (3.33)
Diabetes mellitus complications not specified	1 (3.33)

Supplementary Table 5. Association between extracellular fluid (ECF) volume on emergency room arrival and six-month mortality.

ECF	Overall (n=84)	Survivors (n=54)	Non-survivor	p-value
			(n=30)	
Decreased, n (%)	28 (33.3)	17 (31.5)	11 (36.7)	
Preserved, n (%)	28 (33.3)	22 (40.7)	6 (20)	
Increased, n (%)	28 (33.3)	15 (27.8)	13 (43.3)	0.132

Supplementary Table 6. Association between the class of diuretic treatment prescribed at home and six-month mortality.

Diuretics	Overall (n=84)	Survivors (n=54)	Non-survivor (n=30)	p-value
A1 1: (0/)	22 (27 4)	47 (56.7)		0.264
No diuretics, n (%)	23 (27.4)	17 (56.7)	6 (11.1)	0.261
Thiazides	14 (16.7)	11 (20.4)	3 (10)	0.225
monotherapy, n				
(%)				
ENaC-i + HCT, n (%)	3 (9.5)	2 (0.4)	1 (3.3)	1
Loop diuretics monotherapy, n (%)	17 (20.2)	8 (14.8)	9 (30)	0.099
Loop diuretics + MRA, n (%)	24 (28.6)	14 (25.9)	10 (33.3)	0.474

Legend. ENaC-i, Epithelial sodium channel inhibitor; HCT, hydrochlorothiazide; MRA, mineralocorticoid receptor antagonist

Supplementary Table 7. Association between etiology of hypotonic hyponatremia and six-month mortality.

Etiology	Overall (n=84)	Survivors (n=54)	Non-survivor (n=30)	p-value
Primary polydipsia, n (%)	0 (0)	0 (0)	0 (0)	
Renal losses, n (%)	20 (23.8)	15 (27.8)	5 (16.7)	
Euvolemic, n (%)	11 (13.1)	8 (14.8)	3 (10)	
Extra-renal losses, n (%)	24 (28.6)	16 (29.6)	8 (26.7)	
Hypervolemia, n (%)	29 (34.5)	15 (27.8)	14 (46.7)	0.084

Supplementary Figure 1. Pairwise comparison of ROC curves between the copeptin/urinary sodium (u-Na) index and the u-Na cut-off >30 mmol/L in identifying a preserved extracellular fluid condition (difference between areas under the curves 0.177, 95% CI 0.037-0.381, p=0.013).

