

Supplemental Material

Supplemental Table 1. Profile of serum sodium levels and outcomes stratified by eGFR.

Supplemental Table 2. Profile of serum sodium levels and outcomes stratified by kidney dysfunction status.

Supplemental Figure 1: Plot of relationships between serum sodium levels during hospital stay and length of hospitalization among those discharged to home stratified by eGFR.

Supplemental Table 1. Profile of serum sodium levels and outcomes stratified by eGFR.

Natremia Categories		In-Hospital Mortality (n=27,482)	Discharge to Hospice (n=10,238)	Discharge to Nursing Facility (n=153,695)
		N (%)	N (%)	N (%)
Normonatremia		19,988 (1.2)	9,887 (0.6)	152,369 (9.4)
Hypernatremia	Mild	6,750 (7.7)	1,512 (1.7)	21,623 (24.6)
	Moderate	3,298 (25.4)	334 (2.6)	3,743 (28.8)
	Severe	2,577 (47.0)	89 (1.6)	1,287 (23.5)
eGFR				
Normonatremia	<15	1,438 (7.4)	320 (3.3)	2,847 (1.9)
	15-29	2,994 (15.5)	815 (8.4)	11,307 (7.6)
	30-59	6,674 (34.6)	2,826 (29.3)	52,245 (35.0)
	60-89	5,940 (30.8)	3,476 (36.0)	60,933 (40.8)
	≥ 90	2,265 (11.7)	2,213 (22.9)	22,115 (14.8)
Mild Hypernatremia	<15	410 (3.4)	87 (4.6)	1,167 (4.5)
	15-29	994 (8.2)	234 (12.4)	3,473 (13.3)
	30-59	2,466 (20.4)	549 (29.0)	8,244 (31.3)
	60-89	1,801 (14.9)	404 (21.4)	6,107 (23.4)
	≥ 90	842 (7.0)	205 (10.8)	2,203 (8.4)
Moderate Hypernatremia	<15	166 (1.4)	27 (1.4)	326 (1.3)
	15-29	467 (3.9)	70 (3.7)	743 (2.8)
	30-59	1,150 (9.5)	116 (6.1)	1,334 (5.1)
	60-89	899 (7.4)	68 (3.6)	873 (3.3)
	≥ 90	482 (4.0)	45 (2.4)	359 (1.4)
Severe Hypernatremia	<15	63 (0.5)	12 (0.6)	115 (0.4)
	15-29	258 (2.1)	13 (0.7)	227 (0.9)
	30-59	713 (5.9)	36 (1.9)	426 (1.6)
	60-89	790 (6.5)	18 (1.0)	281 (1.1)
	≥ 90	610 (5.0)	7 (0.4)	201 (0.8)

Supplemental Table 2. Profile of serum sodium levels and outcomes stratified by kidney dysfunction status.

Natremia Status	Kidney Function Status	In-Hospital Mortality (n=32,591)	Discharge to Hospice (n=11,818)	Discharge to Nursing Facility (n=178,887)
		n (%)	n (%)	n (%)
NormoNa	Normal	11,719(69.9)	6,720 (79.1)	109,573 (84.0)
	CKD	429 (2.6)	371 (4.4)	5,766 (4.4)
	AKI	3,906 (23.3)	1,021 (12.0)	11,025 (8.5)
	AKI on CKD	707 (4.2)	385 (4.5)	4,019 (3.1)
Mild HyperNa	Normal	3,310 (30.8)	829 (47.5)	12,343 (52.7)
	CKD	134 (1.2)	74 (4.2)	922 (3.9)
	AKI	1,928 (17.9)	321 (18.4)	4,174 (17.8)
	AKI on CKD	358 (3.3)	148 (8.5)	1,596 (6.8)
Moderate HyperNa	Normal	1,561 (14.5)	147 (8.4)	1,706 (7.3)
	CKD	48 (0.4)	9 (0.5)	90 (0.4)
	AKI	1,031 (9.6)	107 (6.1)	1,107 (4.7)
	AKI on CKD	185 (1.7)	31 (1.8)	367 (1.6)
Moderate HyperNa	Normal	1,375 (12.8)	32 (1.8)	536 (2.3)
	CKD	29 (0.3)	7 (0.4)	22 (0.1)
	AKI	674 (6.3)	31 (1.8)	456 (1.9)
	AKI on CKD	109 (1.0)	8 (0.5)	123 (0.5)

Footnote: CKD, chronic kidney disease; AKI, acute kidney injury; NormoNa, normonatremia; HyperNa, hypernatremia

Supplemental Figure 1: Plot of relationships between serum sodium levels during hospital stay and length of hospitalization among those discharged to home stratified by eGFR.

