

Supplementary Table 2. Clinical presentation at ICU admission before and after IPTW

Variable	Before IPTW		After IPTW	
	Probable OHS (n = 16)	Obese non-probable OHS (n = 515)	Probable OHS (n = 16)	Obese non-probable OHS (n = 59)
Route of admission				
Emergency room	3 (18.8)	102 (19.9)	3 (18.8)	12 (20.1)
General ward	6 (37.5)	254 (49.5)	6 (37.5)	25 (41.7)
Transfer from other ICUs	7 (43.8)	157 (30.6)	7 (43.8)	23 (38.2)
APACHE II score	17 [14–20]	20 [15–29]	16 [14–19]	22 [15–28]
SOFA score	7 [6–10]	10 [6–13]	7 [4–10]	8 [5–13]
Cause of ICU admission				
Respiratory	13 (81.2)	320 (62.1)	13 (81.2)	39 (66.3)
Cardiac	1 (6.2)	101 (19.6)	1 (6.2)	16 (27.2)
Sepsis/septic shock	4 (25.0)	195 (37.9)	4 (25.0)	23 (38.7)
Laboratory findings ^{a)}				
WBC ($\times 10^3/\mu\text{L}$)	9.1 [5.8–10.8]	10.3 [5.8–15.5]	8.9 [5.1–10.6]	10.7 [8.3–13.2]
CRP (mg/dL)	1.7 [0.4–3.3]	7.2 [2.0–17.7]	1.4 [0.4–3.2]	7.1 [1.1–13.9]
Hemoglobin (g/dL)	10.4 [9.3–13.2]	9.9 [8.3–12.5]	10.0 [9.3–13.1]	10.7 [8.8–13.0]
Albumin (g/dL)	3.3 [3.0–3.3]	3.0 [2.6–3.4]	3.2 [2.8–3.3]	3.2 [2.7–3.6]
BUN (mg/dL)	25 [15–29]	30 [18–51]	24 [12–29]	34 [17–53]
Creatinine (mg/dL)	0.8 [0.7–1.6]	1.3 [0.8–2.5]	0.8 [0.7–1.5]	1.7 [1.1–2.8]
Sodium (mmol/L)	138 [136–140]	137 [133–140]	138 [134–140]	138 [132–140]
Potassium (mmol/L)	4.3 [3.9–5.0]	4.2 [3.7–4.7]	4.2 [3.8–5.0]	4.3 [3.8–5.2]
pH	7.34 [7.28–7.38]	7.27 [7.18–7.39]	7.31 [7.28–7.38]	7.24 [7.13–7.35]
PaO ₂ (mmHg)	83 [59–120]	76 [57–103]	81 [51–117]	66 [47–89]
PaCO ₂ (mmHg)	60 [52–80]	45 [38–57]	58 [50–79]	53 [41–63]
Bicarbonate (mmol/L)	30 [28–38]	22 [18–25]	30 [28–38]	21 [19–25]

Data are presented as median [interquartile range] or n (%), as appropriate.

APACHE II, Acute Physiology and Chronic Health Evaluation II; BUN, blood urea nitrogen; CRP, C-reactive protein; ICU, intensive care unit; IPTW, inverse probability of treatment weighting; OHS, obesity hypoventilation syndrome; PaCO₂, arterial partial pressure of carbon dioxide; PaO₂, arterial partial pressure of oxygen; SOFA, Sequential Organ Failure Assessment; WBC, white blood cells.

^{a)}Missing values were observed only in the obese non-probable OHS group: pH (n = 9, 1.7%), PaO₂ (n = 9, 1.7%), WBC (n = 5, 0.9%), hemoglobin (n = 5, 0.9%), CRP (n = 5, 0.9%), albumin (n = 3, 0.6%), BUN (n = 1, 0.2%), creatinine (n = 1, 0.2%), sodium (n = 2, 0.4%), and potassium (n = 2, 0.4%).

Weighted statistics were rescaled to reflect the effective sample size. Weighted effective sample size: obese non-probable OHS = 59, probable OHS = 16. Values are weighted using the survey design.