

Table S1 Baseline characteristics of ICU patients grouped by the occurrence of AKI using ABW and IBW for diagnosis

Characteristic	ABW: AKI IBW: AKI	ABW: AKI IBW: No AKI	ABW: No AKI IBW: No AKI	p
Age, year	70 (58-77)	68 (57-75)	66 (52-77)	0.12
Male sex	80 (52)	20 (40)	164 (57)	0.08
White	138 (90)	45 (90)	257 (89)	0.96
BMI, kg/m ²	28 (24-34)	32 (29-35)	27 (23-32)	<0.001
Body weight, kg				
- Actual BW	82 (70-98)	89 (78-103)	81 (65-94)	0.004
- Ideal BW	70 (60-78)	70 (61-78)	69 (58-76)	0.23
Baseline creatinine, mg/dL	1.1 (0.8-1.4)	0.9 (0.8-1.2)	1 (0.8-1.2)	0.15
Chronic kidney disease	59 (38)	12 (24)	77 (27)	0.02
ICU type				0.46
- Medical ICU	75 (49)	21 (42)	120 (42)	
- Surgical ICU	48 (31)	8 (16)	104 (36)	
- Mixed ICU	31 (20)	21 (42)	65 (22)	
APACHE III score	47 (36-61)	42 (30-53)	44 (32-59)	0.08

Continuous data are presented as median (IQR), Categorical data are presented as n (%).

Table S2: AKI diagnoses and staging according to SCr and UO definition using actual and ideal BW

AKI stage (Actual BW + SCr)	AKI stage (ideal BW + SCr)				Total N (%)
	0	1	2	3	
0	244 (49.5)	0 (0)	0 (0)	0 (0)	244 (49.5)
1	36 (7.3)	92 (18.7)	0 (0)	0 (0)	128 (26.0)
2	4 (0.8)	26 (5.3)	50 (10.1)	0 (0)	80 (16.2)
3	0 (0)	0 (0)	1 (0.2)	40 (8.1)	41 (8.3)
Total, N (%)	284 (57.6)	118 (23.9)	51 (10.3)	40 (8.1)	493

Kappa = 0.84 (95% CI 0.79-0.89) and percentage agreement = 92 %

Kappa = 0.86 (95% CI 0.82-0.89) and percentage agreement = 86.4 %

Table S3: 90-day mortality risk

Actual BW	Ideal BW	N	90-mortality rate	Adjusted OR(95% CI)*
AKI	AKI	209	21.1%	1.65 (0.99-2.77)
AKI	No AKI	40	10.0%	0.83 (0.23-2.32)
No AKI	No AKI	244	12.7%	Reference

* OR is adjusted for age and APACHE score

Figure S1: 90-day mortality rate according to AKI stages (SCr and UO definition)

