

Supplementary Table 1. Results of propensity score matched analysis

	<b>Control group (n=96)</b>	<b>Melatonin group (n=96)</b>	<b>p-value</b>
Acute kidney injury (n, %)	20 (20.8)	8 (8.3)	0.014
Scr > 0.3 mg/dL from baseline	19 (19.8)	8 (8.3)	0.022
Scr increase greater than 50% from baseline	9 (9.4)	5 (5.2)	0.267
Length of stay (days, mean ± SD)	9.2 ± 9.2	10.8 ± 11.6	0.307
Area under the curve (mg·hr/L, mean ± SD)	479.7 ± 179.7	484.9 ± 260.8	0.873
Initial Trough (mcg/mL, mean ± SD)	16.5 ± 6.5	16.7 ± 6.7	0.895
Change in Creatinine Clearance from baseline (mL/min, median [IQR])	2.6 [14.2]	11.0 [28.9]	0.061
Change in sCr from baseline (mg/dL, mean ± SD)	0.1 ± 0.4	-0.1 ± 0.4	0.005
<p>Notes: Propensity score matching included obesity, loop diuretics, piperacillin-tazobactam, age greater than 64 years, vancomycin dose greater than 3999 mg, area under the curve greater than 600 mg·hr/L, baseline creatinine clearance greater than 60 mL/min, intensive care unit admission, and Charlson Comorbidity Index greater than 3. We used the nearest neighbor approach without replacement and a caliper of 0.2. Standardized mean biases were tested and visually inspected using a dot plot to ensure adequate balance between the two groups.</p>			