

SUPPLEMENTAL MATERIAL

Supplemental Table: TDD of vancomycin comparing the actual trough-based and calculated AUC:MIC-based strategies, stratified by BMI group (sensitivity analyses)

BMI group	Vancomycin TDD, mean (SD) Trough-based dosing	Vancomycin TDD, mean (SD) AUC:MIC-based dosing	p-value
Utilizing actual culture MIC ¹			
≥30 kg/m ² (n=68)	2637.25 (1327.89)	1884.33 (807.31)	0.0001
<30 kg/m ² (n=51)	2205.88 (1115.48)	1799.23 (810.76)	0.0377
Total (n=119)	2390.76 (1224.59)	1835.70 (806.96)	<0.0001
Utilizing IBW only in Cockcroft-Gault CrCl calculations ²			
≥30 kg/m ² (n=68)	2637.25 (1327.89)	1764.39 (621.54)	<0.0001
<30 kg/m ² (n=51)	2205.88 (1115.48)	2018.19 (614.6)	0.2951
Total (n=119)	2390.76 (1224.59)	1909.42 (627.75)	0.0002
Utilizing IBW/AdjBW without scalar weight-adjusted VancCl equation ³			
≥30 kg/m ² (n=68)	2637.25 (1327.89)	2057.61 (625.16)	0.0014
<30 kg/m ² (n=51)	2205.88 (1115.48)	2034.84 (608.68)	0.3388
Total (n=119)	2390.76 (1224.59)	2044.6 (613.27)	0.0063

AdjBW = adjusted body weight; AUC = area under the curve; BMI = body mass index; CrCl = creatinine clearance; IBW = ideal body weight; MIC = minimum inhibitory concentration; SD = standard deviation; TDD = total daily dose

¹ *Analysis utilized the actual culture MIC for each patient, as opposed to assuming an MIC =1*

² *Analysis utilized IBW for all patients in CrCl calculations, as opposed to incorporating AdjBW for patients with high BMI*

³ *Analysis calculated VancCl standardly across all patients, as opposed to applying the scalar weight equation for patients with high BMI*