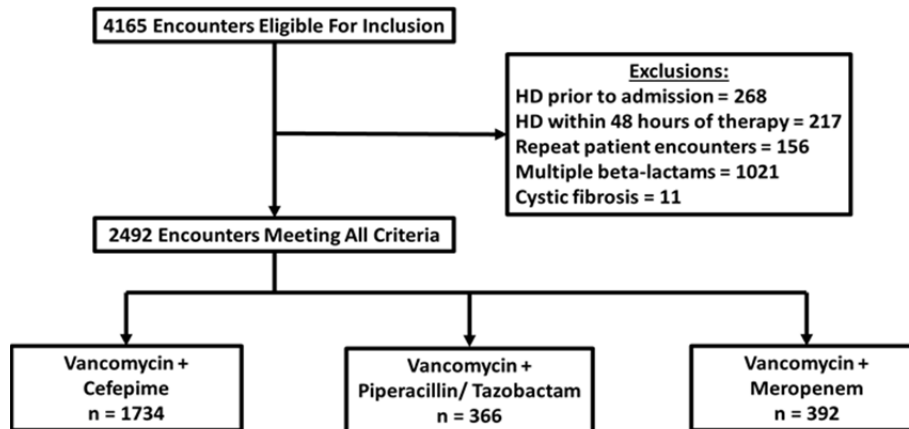
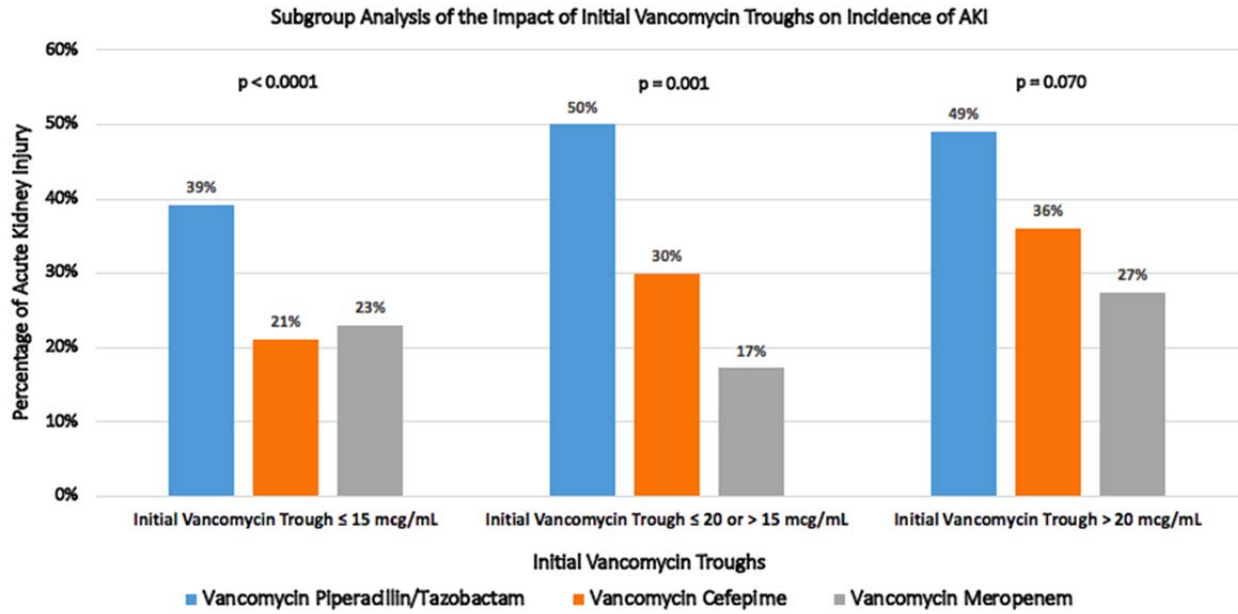


## Supplemental Appendix Figure 1. Study Cohort



## Supplemental Appendix Figure 2. Acute Kidney Injury Rates as a Function of Initial Vancomycin Troughs



Patients with AKI / Total Patients in Group	Initial Vancomycin Trough ≤ 15 mcg/mL	Initial Vancomycin Trough ≤ 20 or > 15 mcg/mL	Initial Vancomycin Trough > 20 mcg/mL
Vancomycin Piperacillin/Tazobactam	74 / 189	25 / 50	24 / 49
Vancomycin Cefepime	197 / 935	62 / 207	71 / 197
Vancomycin Meropenem	46 / 201	10 / 58	15 / 55

**Supplemental Appendix Table 1. Bivariate Analysis of Predictors of Acute Kidney Injury in the Combined Population**

Baseline Characteristics	No AKI n=1837	AKI n= 655	p value
Age, [IQR]	59 [47 - 69]	61 [50 - 71]	p < 0.0001
Gender, no. (%)	986 (53.7)	362 (55.3)	p = 0.482
Weight, [IQR]	48 [64 - 94]	81 [67 -100]	p < 0.0001
MICU	860 (46.8%)	323 (49.3%)	p = 0.272
SICU	602 (32.8%)	273 (41.7%)	p < 0.0001
NeuroICU	375 (20.4%)	59 (9.0%)	p < 0.0001
APACHE II, [IQR]	15 [12 - 19]	18 [14 - 22]	p < 0.0001
Charlson Score, [IQR]	4 [2 - 7]	5 [3 - 8]	p < 0.0001
Sepsis, no. (%)	739 (40.2)	367 (56.0)	p < 0.0001
Mechanical Ventilation, no. (%)	923 (50.2)	382 (58.3)	p < 0.0001
SBP < 90, no. (%)	1146 (62.4)	507 (77.4)	p < 0.0001
Vasopressor Use, no. (%)	257 (19.7)	398 (33.5)	p < 0.0001
One or More Concomitant Nephrotoxins, no. (%)	1391 (75.7)	564 (86.1)	p < 0.0001
Baseline WBC, [IQR]	13 [9 -19]	15 [10 - 21]	p = 0.003
Baseline CrCl, [IQR]	72 [51 - 94]	56 [36 - 78]	p < 0.0001
CrCl < 60	645 (35.1%)	365 (55.7%)	p < 0.0001
CHF, no. (%)	424 (23.1)	201 (30.7)	p < 0.0001
COPD, no. (%)	626 (34.1)	248 (37.9)	p = 0.081
Diabetes, no. (%)	366 (19.9)	141 (21.5)	p = 0.382
Severe Hepatitis, no. (%)	81 (4.4)	54 (8.2)	p < 0.0001
Initial Vancomycin Dose (mg) Per 24 Hours, [IQR]	2000 [2000 - 3000]	2000 [1500 - 2500]	p = 0.034
Initial Vancomycin Trough, [IQR]	11 [8 - 16]	13 [9 - 19]	p < 0.0001
Days of Antibiotic Therapy, [IQR]	3 [2 -5]	4 [3 - 6]	p < 0.0001
Piperacillin/Tazobactam, no. (%)	222 (12.1)	144 (22.0)	p < 0.0001
Cefepime, no. (%)	1315 (71.6)	419 (64.0)	p < 0.0001
Meropenem, no. (%)	300 (16.3)	92 (14.0)	p = 0.168

Abbreviations: AKI - acute kidney injury, CHF = congestive heart failure, COPD = chronic obstructive pulmonary disease, CrCl = creatinine clearance, IQR = interquartile range, no. = number, WBC = white blood cell count