

Supplemental Table 1: Sensitivity Analyses

Analysis	Descriptive	<u>30-day Mortality</u>		<u>Intubated</u>		<u>NIPPV</u>	
1: Complete Case Analysis							
Continuous	Range	Events/Total	aOR (95% CI) ^a	Events/Total	aOR (95% CI) ^b	Events/Total	aOR (95% CI) ^c
Bolus rate, ml/kg/hr	5-280	24/3175	1.13 (1.00-1.29)*	136/3143	1.16 (1.08-1.24)*	219/3010	1.24 (1.07-1.43)*
2: Imputed Analysis							
Continuous	Range	Events/Total	aOR (95% CI) ^a	Events ^d /Total	aOR (95% CI) ^b	Events ^d /Total	aOR (95% CI) ^c
Bolus rate, ml/kg/hr	5-280	48/3950	1.15 (1.05-1.27)*	172/3950	1.18 (1.10-1.26)*	278/3950	1.19 (1.03-1.37)*

Abbreviations: aOR = adjusted odds ratio; CI = confidence interval; mL/kg/hr = milliliters per kilogram per hour; NIPPV = Non-Invasive Positive Pressure Ventilation *p<0.05

^a Adjusted model includes age, sex, total bolus volume, ICU admission, hypotension, vasoactive agent started, and intubation; Risk-estimate per 20 unit increase in bolus rate

^b Adjusted model includes age, sex, total bolus volume, ICU admission, hypotension, vasoactive agent, time from arrival to first IVF, time from arrival to first antibiotic; Risk-estimate per 20 unit increase in bolus rate

^c Adjusted model includes age, sex, total bolus volume, hemoglobin, ICU admission, hypotension, vasoactive agent, time from arrival to first IVF, time from arrival to first antibiotic, and quadratic term for bolus rate; Risk-estimate for a 20 unit increase above bolus rate of 20 ml/kg/hr

^d Average number of events across 20 imputed datasets

