

Table S2: Sensitivity analyses and effect on various outcomes

	Sensitivity Analysis 1[^] (N= 1380599)	Sensitivity Analysis 2[^] (N= 1380599)	Sensitivity Analysis 3[^] (N= 1380599)	Sensitivity Analysis 4[^] (N=712237)
Unadjusted Total Mortality (Weekday vs weekend admission)	5.7% vs 6.1% (p<0.001)	5.8% vs 6.2% (p<0.001)	7.3% vs 7.8% (p<0.001)	7.6% vs 8.1% (p=0.005)
Adjusted odds of total mortality for weekend admission	OR 1.04; 95% CI 0.99, 1.10	OR 1.07; 95% CI 1.03, 1.11	OR 1.07; 95% CI 1.03, 1.11	OR 1.07; 95% CI 1.02, 1.13
Unadjusted Mortality by day 3 of admission (Weekday vs weekend admission)	4.8% vs 5.7% (p<0.001)	4.9% vs 5.7% (p<0.001)	6.1% vs 7.2% (p<0.001)	6.2% vs 7.3% (p<0.001)
Adjusted odds of Mortality by day 3 of admission for weekend admission	OR 1.20; 95% CI 1.12, 1.28	OR 1.18; 95% CI 1.10, 1.26	OR 1.14; 95% CI 1.05, 1.24	OR 1.19; 95% CI 1.10, 1.29
Adjusted odds of LOS of survivors for weekend admission	1.03 (1.02, 1.04)	1.02 (1.01, 1.03)	1.02 (1.01, 1.03)	1.03 (1.02, 1.04)
Adjusted odds of time to death for weekend admission	0.92 (0.88, 0.96)	0.92 (0.88, 0.96)	0.90(0.86, 0.93)	0.90 (0.85, 0.95)
Discharge to home (Weekday vs weekend admission)	57.9% vs 56.8% (p<0.001)	57.7.4% vs 56.7% (p<0.001)	55.9% vs 55.1% (p<0.001)	58.4% vs 57.1% (p<0.001)
Discharge to Skilled nursing Facility (Weekday vs weekend admission)	19.6% vs 20.5% (p=0.003)	19.5% vs 20.0% (p=0.008)	19.8% vs 20.3% (p=0.02)	17.5% vs 18.2% (p=0.008)

^Sensitivity Analyses:

Sensitivity Analysis 1: Including all unique observations along with one of each duplicate observations randomly selected from the database

Sensitivity Analysis 2: Including all unique observations along with one of each duplicate observations admitted in the first month for that duplicate observation

Sensitivity Analysis 3: Including all unique observations along with one of each duplicate observations admitted in the last month for that duplicate observation

Sensitivity Analysis 4: Including only unique observations and eXcluding any duplicate observations