

Supplemental Material

Supplementary Table 1. Adjusted Rate of Emergency Department Visits Leading to a Hospital Admission by Recipient Characteristics

Recipient Characteristic	Level (% of study population)	Adjusted Incident Rate Ratio	p-value**
Recipient age (years)	18-29 (8)	0.98 (0.89, 1.07)	<0.001
	30-44 (25)	0.90 (0.84, 0.95)	
	45-59 (36)	0.90 (0.85, 0.95)	
	60+ (32)	- reference -	
Recipient gender*	Female (40)	1.20 (1.15, 1.26)	<0.001
	Male (60)	- reference -	
Recipient race	Black (19)	1.16 (1.09, 1.23)	<0.001
	Hispanic (23)	1.07 (1.00, 1.13)	
	Asian/Pacific Islander (8)	0.90 (0.82, 0.99)	
	Other (9)	1.12 (1.03, 1.23)	
	White (41)	- reference -	
Primary Insurance	Medicare (65)	1.47 (1.39, 1.56)	<0.001
	Medicaid (5)	1.77 (1.60, 1.95)	
	Other (1)	1.41 (1.10, 1.82)	
	Private (29)	- reference -	
Discharge site	Other facility (2)	1.35 (1.17, 1.55)	<0.001
	Home health (19)	1.25 (1.18, 1.31)	
	Home/Routine (80)	- reference -	
Median Income based on residential zip code*	Lowest income quartile (25)	1.01 (0.87, 1.17)	0.55
	Second quartile (24)	1.03 (0.97, 1.10)	
	Third quartile (25)	0.99 (0.93, 1.06)	
	Highest income quartile (25)	- reference -	
Depression	Yes (4)	1.06 (0.95, 1.17)	0.30
	No (96)	- reference -	
Hypertension	Yes (8)	1.10 (1.02, 1.20)	0.01
	No (92)	- reference -	
Diabetes (uncomplicated)	Yes (10)	1.10 (1.03, 1.19)	0.07
	No (90)	- reference -	
Diabetes (with complications)	Yes (19)	1.39 (1.32, 1.47)	<0.001
	No (81)	- reference -	
Congestive heart failure	Yes (5)	1.09 (0.99, 1.19)	0.07
	No (95)	- reference -	
Peripheral vascular disease	Yes (6)	1.28 (1.18, 1.38)	<0.001
	No (94)	- reference -	
Hypothyroidism	Yes (8)	1.02 (0.95, 1.10)	0.58
	No (92)	- reference -	
Liver disease	Yes (4)	1.02 (0.92, 1.13)	0.75
	No (96)	- reference -	
Arthritis	Yes (4)	1.09 (0.97, 1.22)	0.15
	No (96)	- reference -	
Coagulopathy	Yes (9)	1.14 (1.06, 1.22)	<0.001
	No (91)	- reference -	
Valve disease	Yes (5)	0.89 (0.80, 0.99)	0.03
	No (95)	- reference -	
Length of initial hospital stay (days)	1-4 days (30)	- reference -	<0.001
	5-6 days (36)	1.22 (1.15, 1.30)	
	7+ days (34)	1.57 (1.47, 1.66)	
Emergency department visit within one year prior to transplant	Yes - without admission (21)	1.41 (1.33, 1.49)	<0.001
	Yes - with admission (29)	1.82 (1.73, 1.92)	
	No (50)	- reference -	
State of residence	California (47)	0.83 (0.78, 0.88)	0.004
	Florida (25)	0.92 (0.87, 0.97)	
	New York (28)	- reference -	

Supplementary Table 2. Complexity Level for Primary Procedure Codes for ED Visits Not Requiring Admission following Discharge for Kidney Transplantation

Complexity Code (Description) for ED Visit	Frequency (%)
99281 (Limited / Minor Problem)	200 (3.4%)
99282 (Low/ Moderate Severity)	619 (10.6%)
99283 (Moderate Severity)	1792 (30.7%)
99284 (High / Urgent Severity)	2226 (38.2%)
99285 (High Severity & Threat)	828 (14.2%)
99291 (Critical Care Illness / Injured Patient)	169 (2.9%)