

## eAppendix

**Table.** Estimated Odds Ratios for All Regression Specifications

30-day all cause rehospitalization	Senior Care Options Service Areas		Excluded Deaths Within 30 Days of Discharge		All of Massachusetts <sup>a</sup>		Difference-in-Differences Estimates		COPD		Congestive Heart Failure	
	AOR	95% CI	AOR	95% CI	AOR	95% CI	AOR	95% CI	AOR	95% CI	AOR	95% CI
Unadjusted odds ratio	1.15	(0.96-1.37)	1.15	(0.96-1.37)	1.16	(0.98-1.38)	0.88	(0.58-1.33)	1.38*	(1.06-1.78)	1.13	(0.81-1.58)
SCO participation	1.13	(0.98-1.32)	1.13	(0.98-1.32)	1.13	(0.96-1.33)	1.13	(0.74-1.73)	1.32**	(1.13-1.53)	1.12	(0.89-1.41)
Male	1.07*	(1.01-1.13)	1.07*	(1.01-1.13)	1.08**	(1.03-1.13)	1.07	(1.00-1.14)	1.06	(0.88-1.28)	1.04	(0.94-1.15)
White	Reference											
Black	0.97	(0.86-1.08)	0.97	(0.86-1.08)	0.94	(0.85-1.05)	1.12	(0.96-1.30)	0.75*	(0.59-0.96)	0.96	(0.82-1.13)
Other	0.93	(0.83-1.03)	0.93	(0.83-1.03)	0.92	(0.84-1.02)	0.97	(0.88-1.08)	0.91	(0.74-1.11)	1.09	(0.98-1.22)
Aged 65-75 years	Reference											
Aged 76-85 years	0.99	(0.89-1.09)	0.99	(0.89-1.09)	0.98	(0.90-1.07)	0.99	(0.89-1.11)	1.03	(0.83-1.27)	0.96	(0.84-1.09)
Aged 86+ years	0.84*	(0.71-0.99)	0.84*	(0.71-0.99)	0.84*	(0.73-0.96)	0.80**	(0.68-0.92)	0.71**	(0.58-0.87)	0.85**	(0.77-0.93)
Charlson comorbidity index = 0	Reference											
Charlson comorbidity index = 1	1.19**	(1.12-1.27)	1.19**	(1.12-1.27)	1.18**	(1.12-1.25)	1.19**	(1.08-1.31)	Reference <sup>b</sup>		Reference <sup>b</sup>	
Charlson comorbidity index = 2	1.36**	(1.25-1.48)	1.36**	(1.25-1.48)	1.33**	(1.23-1.44)	1.40**	(1.28-1.54)	1.17	(1.00-1.37)	1.04	(0.89-1.22)
Charlson comorbidity index = 3	1.52**	(1.46-1.58)	1.52**	(1.46-1.58)	1.51**	(1.44-1.58)	1.53**	(1.39-1.69)	1.41**	(1.24-1.60)	1.12	(0.93-1.36)
Charlson comorbidity index ≥4	1.57**	(1.45-1.70)	1.57**	(1.44-1.70)	1.57**	(1.46-1.68)	1.62**	(1.45-1.81)	1.40**	(1.20-1.64)	1.14	(0.99-1.32)
Medicare entitlement before age 65 years	1.10	(0.99-1.23)	1.10	(0.99-1.23)	1.11*	(1.01-1.21)	1.04	(0.93-1.17)	1.20*	(1.01-1.43)	1.22**	(1.08-1.39)
Length of stay for the index hospitalization	1.01*	(1.00-1.01)	1.01*	(1.00-1.01)	1.03	(1.00-1.01)	1.01	(1.00-1.01)	0.99	(0.99-1.00)	1.00	(0.99-1.01)
Index stay itself was a 30-day rehospitalization from a prior stay	1.93**	(1.80-2.07)	1.93**	(1.80-2.07)	1.93**	(1.81-2.06)	2.06**	(1.91-2.23)	1.95**	(1.73-2.20)	1.82**	(1.67-1.99)

*5 most common diagnoses from index hospitalizations:*

Pneumonia	0.84**	(0.80-0.89)	0.84**	(0.80-0.89)	0.85**	(0.78-0.91)	0.88**	(0.81-0.96)
Obstructive chronic bronchitis	1.22*	(1.01-1.46)	1.21	(1.00-1.46)	1.20*	(1.02-1.41)	1.22	(0.94-1.57)
Urine tract infection	0.88*	(0.79-0.99)	0.88*	(0.79-0.99)	0.89**	(0.81-0.97)	0.92	(0.80-1.06)
Congestive heart failure	1.12*	(1.02-1.24)	1.13*	(1.02-1.24)	1.14**	(1.05-1.23)	1.05	(0.96-1.14)
Chest pain	0.77**	(0.68-0.88)	0.77**	(0.68-0.88)	0.75**	(0.66-0.85)	0.79**	(0.69-0.92)
<i>5 most common procedures from index hospitalizations:</i>								
Packed cell transfusion	1.10	(0.93-1.30)	1.09	(0.92-1.29)	1.06	(0.93-1.21)	1.04	(0.92-1.18)
Venous catheterization	1.16**	(1.04-1.29)	1.17**	(1.05-1.30)	1.19**	(1.07-1.32)	1.09	(0.92-1.29)
Total knee replacement	0.91*	(0.83-1.00)	0.91*	(0.83-1.00)	0.87*	(0.77-0.97)	0.83*	(0.72-0.97)
EGD with closed biopsy	1.10	(0.90-1.33)	1.09	(0.90-1.33)	1.07	(0.90-1.27)	0.93	(0.72-1.19)
Percutaneous transluminal coronary angioplasty	0.78*	(0.61-0.99)	0.78*	(0.61-0.99)	0.81*	(0.66-0.98)	0.60**	(0.41-0.87)
N	59,064		58,838		70,567		35,097	
	7,427		13,309					

AOR indicates adjusted odds ratio; COPD, chronic obstructive pulmonary disease; EGD, esophagogastroduodenoscopy; SCO, Senior Care Options.

“\*” indicates  $P < .05$ ; “\*\*” indicates  $P < .01$ .

<sup>a</sup>Model does not include county fixed effects.

<sup>b</sup>COPD and congestive heart failure patients have Charlson comorbidity index scores of at least 1. Therefore, the reference group consists of those who had COPD or CHF, respectively, but no other comorbidities. Likewise, these models do not include the 5 most common diagnoses and procedures since they are stratified by specific diagnoses.