

TABLE E-1 Factors Associated with Rates of Primary and Revision THR: Results of Poisson Regression Analyses*

	Primary THR		Revision THR	
	Rate Ratio	95% CI	Rate Ratio	95% CI
Age group, y				
65-69	1.00	-	1.00	-
70-74	1.22	1.18, 1.26	1.37	1.29, 1.45
75-79	1.33	1.28, 1.37	1.67	1.57, 1.77
80-84	1.09	1.05, 1.14	1.65	1.55, 1.77
85-89	0.68	0.64, 0.73	1.37	1.26, 1.50
Gender				
Male	1.00	-	1.00	-
Female	1.24	1.21, 1.28	1.11	1.07, 1.16
Race				
White	1.00	-	1.00	-
Black	0.59	0.55, 0.63	0.63	0.57, 0.70
Medicaid Supplement				
No	1.00	-	1.00	-
Yes	0.66	0.63, 0.70	0.90	0.83, 0.97
Census Division				
New England	1.00	-	1.00	-
Mid-Atlantic	0.89	0.83, 0.94	0.83	0.74, 0.92
E. North Central	1.07	1.01, 1.14	1.10	1.00, 1.22
W. North Central	1.28	1.20, 1.36	1.23	1.10, 1.37
South Atlantic	0.97	0.91, 1.03	1.00	0.90, 1.10
E. South Central	0.81	0.75, 0.87	0.88	0.78, 0.99
W. South Central	0.76	0.70, 0.81	0.93	0.83, 1.03
Mountain	1.28	1.19, 1.38	1.62	1.44, 1.81
Pacific	1.20	1.13, 1.29	1.40	1.26, 1.56

* Enrollees aged 65-89 and coded as of black or white race.

Adjusted for age, gender, race, Medicaid supplement, and residence.

TABLE E-2 Factors Associated with 90 Day Post-Operative Complications for Primary THR: Results of Multivariable Logistic Regression Analyses

	N	Death* OR (95%CI)	Readmission* OR (95%CI)	PE* OR (95%CI)	Dislocation* OR (95%CI)	Infection* OR (95%CI)
Age group, yrs						
65-69	13,763	1.00	1.00	1.00	1.00	1.00
70-74	16,890	1.08 (0.80,1.47)	0.99 (0.88,1.11)	1.03 (0.81,1.30)	1.25 (1.09,1.44)	1.16 (0.69,1.94)
75-79	14,376	1.86 (1.41,2.47)	1.13 (1.01,1.27)	1.01 (0.79,1.30)	1.46 (1.27,1.68)	1.67 (1.01,2.77)
80-84	8140	3.02 (2.27,4.00)	1.16 (1.02,1.32)	1.13 (0.85,1.50)	1.57 (1.34,1.84)	1.25 (0.69,2.28)
85-89	2806	5.82 (4.24,7.99)	1.36 (1.13,1.65)	1.06 (0.68,1.65)	1.87 (1.51,2.31)	2.66 (1.41,5.03)
Gender						
Male	20,240	1.00	1.00	1.00	1.00	1.00
Female	35,735	0.64 (0.54,0.76)	0.92 (0.85,1.00)	0.91 (0.76,1.10)	0.68 (0.61,0.75)	0.83 (0.58,1.18)
Race						
White	53,703	1.00	1.00	1.00	1.00	1.00
Black	2272	1.48 (1.03,2.11)	1.04 (0.86,1.26)	1.07 (0.69,1.65)	0.89 (0.70,1.13)	0.99 (0.46,2.14)
Primary Diagnosis						
Osteoarthritis	50,341	1.00	1.00	1.00	1.00	1.00
Rheumatoid Arthritis	2022	0.83 (0.51, 1.34)	1.77 (1.49, 2.11)	1.27 (0.82, 1.97)	1.91 (1.56, 2.33)	0.53 (0.17, 1.66)
Osteonecrosis	3612	1.37 (1.01, 1.86)	1.46 (1.26, 1.68)	0.89 (0.62, 1.28)	1.64 (1.40, 1.93)	1.46 (0.82, 2.61)
Charlson Comorbidity Index						
None	36,567	1.00	1.00	1.00	1.00	1.00
One or more	19,408	1.74 (1.46, 2.07)	1.18 (1.08,1.29)	1.13 (0.94,1.37)	1.17 (1.06,1.30)	1.47 (1.02,2.11)
Medicaid Supplement						
No	52,830	1.00	1.00	1.00	1.00	1.00
Yes	3145	1.68 (1.25, 2.25)	1.37 (1.17, 1.61)	1.11 (0.78, 1.59)	1.39 (1.15, 1.67)	1.91 (1.10, 3.33)

* Enrollees aged 65-89 and coded as black or white race.

Adjusted for hospital and surgeon volume as well as age, gender, race, primary diagnosis, comorbidity index, and Medicaid supplement.

TABLE E-3 Factors Associated with 90 Day Post-Operative Complications for Revision THR: Results of Multivariable Logistic Regression Analyses

	N	Death*	Readmission*	PE*	Dislocation*	Infection*
		OR (95%CI)	OR (95%CI)	OR (95%CI)	OR (95%CI)	OR (95%CI)
Age group, yrs						
65-69	2480	1.00	1.00	1.00	1.00	1.00
70-74	3371	1.75 (1.05,2.92)	0.93 (0.77,1.11)	1.22 (0.67,2.21)	0.95 (0.78,1.16)	0.68 (0.38,1.20)
75-79	3217	1.99 (1.19,3.33)	1.09 (0.91,1.29)	1.32 (0.70,2.50)	1.02 (0.84,1.24)	1.25 (0.75,2.07)
80-84	2173	4.69 (2.86,7.69)	1.01 (0.82,1.23)	1.23 (0.61,2.49)	1.02 (0.82,1.27)	0.96 (0.51,1.80)
85-89	992	6.39 (3.76,10.84)	1.09 (0.85,1.39)	2.24 (1.06,4.74)	1.23 (0.95,1.60)	0.97 (0.46,2.08)
Gender						
Male	4643	1.00	1.00	1.00	1.00	1.00
Female	7590	0.60 (0.47,0.77)	1.10 (0.97,1.25)	0.73 (0.49,1.11)	0.95 (0.84,1.08)	0.91 (0.62,1.33)
Race						
White	11670	1.00	1.00	1.00	1.00	1.00
Black	563	1.29 (0.77,2.18)	0.87 (0.64,1.17)	1.24 (0.53,2.92)	0.85 (0.62,1.17)	1.09 (0.49,2.44)
Charlson Comorbidity Index						
None	7441	1.00	1.00	1.00	1.00	1.00
One or more	4792	2.06 (1.59, 2.66)	1.34 (1.18,1.52)	1.39 (0.92,2.12)	1.26 (1.11,1.44)	2.06 (1.37,3.09)
Medicaid Supplement						
No	11270	1.00	1.00	1.00	1.00	1.00
Yes	963	1.42 (0.95, 2.12)	1.37 (1.12, 1.68)	0.77 (0.35, 1.71)	1.22 (0.97,1.53)	1.53 (0.84,2.78)

*Enrollees aged 65-89 and coded as black or white race.

Adjusted for hospital and surgeon volume, as well as age, gender, race, primary diagnosis, comorbidity index, and Medicaid supplement.