

Appendix A

Appendix table 1: Hospital systems that settled False Claims Act cases alleging that they admitted patients from the emergency department unnecessarily

Name	Location	Hospitals	Medicare beneficiaries in 2009	Post-period ^a	Settlement	
					Date	Amount (millions)
St. Joseph's Hospital	Atlanta, GA	1	9,216	2005	December 21, 2007	26
Overlook Hospital/Atlantic Health System	Summit, NJ	4	44,403	2009	December 20, 2014	9
St. Joseph's Medical Center	Towson, MD	1	11,538	2009	February 7, 2013	5
Community Health Systems	Multiple states	123	380,030	2010	August 4, 2014	98
Health Management Associates	Multiple states	58	184,386	2012	September 18, 2018	260
Prime Healthcare	Multiple states	16	46,784	2013	August 3, 2018	65
San Mateo County Medical Center	San Mateo, CA	1	976	2017	August 6, 2021	11
El Centro Regional Medical Center	El Centro, CA	1	6,728	2006 ^b	September 10, 2010	2
Total		205	684,061			476

^aThe final year covered by the settlement. For example, the settlement for Community Health System covered claims billed from 2005 to 2010.

^bThe settlement announcement did not specify the period covered, and so we assumed it was 4 years before the settlement date.

Appendix table 2: Annualized adjustments to costs over time based on Medicare payment updates

	OPPS Conversion Factor ^{a,b}	IPPS Base Payment Rate		
		Labor related	Non-labor related	Total
2005	56.98	3,238.07	1,316.18	4,554.25
2019	79.55	3,856.27	1,789.81	5,646.08
Difference	22.56			1,091.83
Annualized update	0.024			0.015

^aMedicare Program; Changes to the Hospital Outpatient Prospective Payment System and Calendar Year 2005 Payment Rates. Federal Register/Vol. 69, No. 219/Monday, November 15, 2004 65682-66233.

^bMedicare Program; Changes to Hospital Outpatient Prospective Payment and Ambulatory Surgical Center Payment Systems and Quality Reporting Programs. Federal Register/Vol. 83, No. 225/Wednesday, November 21, 2018 58818-59179.

^cMedicare Program; Changes to the Hospital Inpatient Prospective Payment Systems and Fiscal Year 2005 Rates; Correcting Amendment. Medicare Program; Changes to the Hospital Inpatient Prospective Payment Systems and Fiscal Year 2005 Rates; Correcting Amendment/78526-78717.

^dMedicare Program; Hospital Inpatient Prospective Payment Systems for Acute Care Hospitals and the Long-Term Care Hospital Prospective Payment System and Policy Changes and Fiscal Year 2019 Rates; Quality Reporting Requirements for Specific Providers; Medicare and Medicaid Electronic Health Record (EHR) Incentive Programs (Promoting Interoperability Programs) Requirements for Eligible Hospitals, Critical Access Hospitals, and Eligible Professionals; Medicare Cost Reporting Requirements; and Physician Certification and Recertification of Claims. Federal Register/Vol. 83, No. 160/Friday, August 17, 2018/Rules and Regulations. 41144-41784.

Appendix table 3: Summary statistics by year

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
Outcomes															
Admit	0.44	0.44	0.44	0.44	0.43	0.42	0.41	0.39	0.38	0.37	0.37	0.36	0.36	0.36	0.35
Admit/transfer	0.45	0.45	0.45	0.45	0.44	0.43	0.43	0.41	0.39	0.38	0.38	0.37	0.37	0.37	0.37
Spending	9,250	9,799	10,187	10,850	11,379	11,326	11,218	10,372	10,282	10,213	10,288	10,120	10,077	10,173	10,148
30 day mortality	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05	0.05	0.05
30 day revisit	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.22
30 day mortality/revisit	0.24	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.26	0.26	0.26	0.26	0.26
Covariates															
Age	78.4	78.5	78.5	78.6	78.6	78.5	78.4	78.4	78.3	78.2	78.0	77.9	77.8	77.8	77.7
Female	0.61	0.61	0.60	0.60	0.60	0.60	0.60	0.60	0.60	0.59	0.59	0.58	0.58	0.57	0.57
White	0.84	0.84	0.84	0.84	0.84	0.83	0.83	0.83	0.83	0.82	0.82	0.82	0.82	0.82	0.82
Black	0.11	0.11	0.11	0.11	0.11	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.11
Hispanic	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Revisit	0.19	0.19	0.20	0.20	0.20	0.21	0.21	0.20	0.21	0.21	0.22	0.22	0.22	0.22	0.22
Heart attack	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Alzheimer's	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.07	0.07	0.07	0.07
Atrial fibrillation	0.13	0.14	0.14	0.14	0.14	0.14	0.15	0.15	0.16	0.16	0.16	0.16	0.16	0.16	0.16
Chronic kidney disease	0.15	0.16	0.19	0.21	0.23	0.24	0.26	0.27	0.28	0.29	0.30	0.32	0.37	0.39	0.40
COPD	0.21	0.21	0.21	0.21	0.22	0.21	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22	0.22
Congestive heart failure	0.33	0.33	0.33	0.32	0.32	0.31	0.31	0.30	0.30	0.29	0.28	0.28	0.28	0.28	0.28
Diabetes	0.32	0.33	0.34	0.35	0.36	0.36	0.37	0.37	0.38	0.37	0.37	0.37	0.37	0.37	0.37
Hip fracture	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Ischemic heart disease	0.49	0.49	0.49	0.49	0.49	0.48	0.48	0.48	0.47	0.46	0.45	0.44	0.44	0.44	0.44
Depression	0.15	0.16	0.16	0.17	0.18	0.19	0.20	0.21	0.22	0.23	0.23	0.24	0.24	0.25	0.26
Osteoporosis	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.11	0.10	0.10	0.09	0.09	0.09	0.09	0.10
Stroke	0.09	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.07	0.07
Anemia	0.32	0.33	0.34	0.35	0.37	0.37	0.37	0.38	0.38	0.37	0.36	0.36	0.35	0.35	0.36
Asthma	0.07	0.07	0.07	0.07	0.07	0.07	0.08	0.08	0.08	0.08	0.09	0.17	0.08	0.08	0.08
Cancer	0.10	0.10	0.10	0.10	0.11	0.10	0.11	0.12	0.12	0.11	0.11	0.11	0.11	0.12	0.12
Medicaid	0.17	0.17	0.17	0.17	0.17	0.18	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.16	0.16
Median income	5.33	5.39	5.43	5.46	5.48	5.49	5.51	5.53	5.55	5.57	5.59	5.61	5.63	5.66	5.68
Quarter 2	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Quarter 3	0.25	0.25	0.25	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
Quarter 4	0.24	0.25	0.25	0.24	0.24	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25	0.25
N (millions)	14.5	14.0	14.0	14.1	13.8	14.3	14.7	14.8	14.7	14.9	15.8	16.1	16.5	16.3	16.2

Appendix Table 4: Two-way fixed effects estimates of the impact of FCA investigations from alternative specifications

	Admission	30-day mortality	30-day revisits	90-day spending
Include controls for primary diagnosis				
Post × Treat	-3.34 *** (0.39)	-0.05 (0.03)	0.72 *** (0.09)	-330 *** (87)
Omit all patient controls				
Post × Treat	-3.55 *** (0.40)	-0.07 *** (0.02)	0.69 *** (0.11)	-389 *** (75)
Alternate time period for treated hospitals: -4 to 6 years				
Post × Treat	-2.86 *** (0.39)	-0.10 ** (0.04)	0.71 *** (0.10)	-373 *** (72)
Alternate time period for treated hospitals: -4 to 4 years				
Post × Treat	-2.45 *** (0.36)	-0.09 * (0.05)	0.58 *** (0.10)	-333 *** (70)
Mean	36.70	5.74	21.66	9,657
N	47,164	47,164	47,164	47,164
Unit	Percentage points			2019 USD

*p<0.05, **p<0.01, ***p<0.001.

Observations are at the hospital-year level.

Appendix B: Regression coefficients from model 2

	2005		2006	
	β (SE)			
Outcome: Admission				
Age	0.00579 (0.00002)	0.00554 (0.00002)	0.00561 (0.00002)	0.00539 (0.00002)
Female	-0.02193 (0.00027)	-0.00921 (0.00025)	-0.02222 (0.00027)	-0.00892 (0.00026)
White	0.00582 (0.00088)	0.01529 (0.00082)	0.00784 (0.00089)	0.01818 (0.00082)
Black	-0.03050 (0.00096)	-0.02674 (0.00089)	-0.02724 (0.00097)	-0.02288 (0.00090)
Hispanic	-0.03177 (0.00122)	-0.02526 (0.00113)	-0.03167 (0.00125)	-0.02478 (0.00116)
Revisit	0.03443 (0.00092)	0.01512 (0.00085)	0.03531 (0.00095)	0.01653 (0.00088)
Heart attack	0.01921 (0.00047)	0.03202 (0.00044)	0.01603 (0.00047)	0.02838 (0.00044)
Alzheimer's	0.01859 (0.00039)	0.00763 (0.00036)	0.01835 (0.00039)	0.00746 (0.00037)
Atrial fibrillation	0.04658 (0.00039)	0.03938 (0.00036)	0.04872 (0.00038)	0.04071 (0.00036)
Chronic kidney disease	0.07691 (0.00034)	0.05373 (0.00032)	0.07196 (0.00034)	0.04915 (0.00032)
COPD	0.07037 (0.00032)	0.05005 (0.00030)	0.07003 (0.00033)	0.05068 (0.00031)
Congestive heart failure	0.03243 (0.00029)	0.02619 (0.00027)	0.03020 (0.00029)	0.02502 (0.00027)
Diabetes	0.01901 (0.00101)	0.03123 (0.00094)	0.01719 (0.00103)	0.02936 (0.00095)
Hip fracture	-0.00318 (0.00029)	-0.01288 (0.00027)	-0.00392 (0.00029)	-0.01266 (0.00027)
Ischemic heart disease	-0.00891 (0.00036)	0.00336 (0.00034)	-0.00969 (0.00037)	0.00245 (0.00034)
Depression	-0.00546 (0.00047)	0.00663 (0.00043)	-0.00451 (0.00047)	0.00695 (0.00043)
Osteoporosis	0.02353 (0.00045)	0.02518 (0.00042)	0.02218 (0.00047)	0.02361 (0.00043)
Stroke	0.02838 (0.00030)	0.02410 (0.00028)	0.02986 (0.00030)	0.02526 (0.00028)
Anemia	-0.01344 (0.00053)	-0.01726 (0.00049)	-0.01368 (0.00053)	-0.01750 (0.00049)
Asthma	0.00408 (0.00042)	-0.00443 (0.00039)	0.00383 (0.00042)	-0.00440 (0.00039)
Cancer	0.01019 (0.00109)	0.00221 (0.00101)	0.01807 (0.00112)	0.01026 (0.00104)
Medicaid	-0.05856 (0.00036)	-0.04382 (0.00034)	-0.05955 (0.00037)	-0.04405 (0.00035)
Median income	-0.00179 (0.00008)	-0.00093 (0.00007)	-0.00239 (0.00008)	-0.00143 (0.00007)
Quarter 2	-0.02098 (0.00035)	-0.00737 (0.00033)	-0.01672 (0.00036)	-0.00612 (0.00033)
Quarter 3	-0.03039 (0.00035)	-0.01092 (0.00033)	-0.01963 (0.00036)	-0.00503 (0.00034)
Quarter 4	-0.00680 (0.00035)	0.00413 (0.00033)	-0.00061 (0.00036)	0.00544 (0.00034)
Constant	-0.03982 (0.00164)		-0.02805 (0.00166)	
Infectious diseases		-0.32570 (0.00087)		-0.33692 (0.00087)
Neoplasms		-0.38831 (0.00111)		-0.40968 (0.00112)
Endocrine		-0.54331 (0.00089)		-0.56423 (0.00089)
Blood disorders		-0.48652 (0.00080)		-0.50677 (0.00079)
Mental Illness		-0.53467 (0.00086)		-0.56037 (0.00086)
Nervous system		0.10873 (0.00121)		0.08614 (0.00123)
Circulatory system		-0.22833 (0.00095)		-0.26873 (0.00095)
Respiratory system		-0.13824 (0.00149)		-0.15680 (0.00150)
Digestive system		-0.40138 (0.00116)		-0.42608 (0.00116)
Genitourinary system		-0.49248 (0.00092)		-0.51210 (0.00091)
Skin conditions		-0.11404 (0.00079)		-0.14274 (0.00078)
Musculoskeletal conditions		-0.20736 (0.00081)		-0.22807 (0.00081)
Injury and poisoning		-0.13250 (0.00084)		-0.16174 (0.00084)
Signs/symptoms		-0.59058 (0.00138)		-0.60866 (0.00137)
Const		0.25985 (0.00170)		0.29432 (0.00171)
N	14,531,307	14,531,307	14,020,251	14,020,251
Sample mean	0.43593	0.43593	0.43823	0.43823

Appendix B: Regression coefficients from model 2

	2005		2006	
	β (SE)			
Outcome: 90-day spending				
Age	172 (0.4)	167 (0.4)	176 (0.5)	171 (0.5)
Female	-402 (6.9)	-261 (6.7)	-384 (7.4)	-226 (7.3)
White	705 (22.5)	785 (22.1)	738 (23.9)	835 (23.5)
Black	766 (24.6)	867 (24.2)	837 (26.1)	957 (25.7)
Hispanic	-430 (31.1)	-337 (30.6)	-492 (33.6)	-378 (33.0)
Revisit	785 (23.5)	600 (23.1)	829 (25.6)	651 (25.2)
Heart attack	1,170 (12.1)	1,238 (11.9)	1,137 (12.7)	1,175 (12.5)
Alzheimer's	501 (10.0)	388 (9.8)	566 (10.6)	451 (10.4)
Atrial fibrillation	2,024 (10.0)	1,928 (9.8)	2,149 (10.3)	2,038 (10.1)
Chronic kidney disease	2,053 (8.6)	1,799 (8.6)	2,034 (9.2)	1,760 (9.1)
COPD	2,095 (8.2)	1,880 (8.1)	2,189 (8.8)	1,973 (8.7)
Congestive heart failure	1,315 (7.4)	1,267 (7.3)	1,322 (7.8)	1,280 (7.7)
Diabetes	1,208 (25.8)	1,257 (25.4)	1,185 (27.6)	1,222 (27.2)
Hip fracture	-290 (7.3)	-342 (7.2)	-302 (7.9)	-334 (7.8)
Ischemic heart disease	898 (9.2)	1,027 (9.1)	945 (9.8)	1,068 (9.7)
Depression	313 (11.9)	430 (11.7)	374 (12.5)	482 (12.3)
Osteoporosis	1,307 (11.5)	1,337 (11.4)	1,355 (12.5)	1,377 (12.3)
Stroke	1,102 (7.6)	1,031 (7.4)	1,219 (8.1)	1,134 (8.0)
Anemia	-217 (13.5)	-226 (13.3)	-207 (14.2)	-219 (14.0)
Asthma	-31 (10.7)	-193 (10.5)	-57 (11.4)	-214 (11.2)
Cancer	642 (27.7)	580 (27.2)	814 (30.1)	743 (29.6)
Medicaid	-584 (9.3)	-358 (9.1)	-582 (10.1)	-335 (9.9)
Median income	-52 (2.0)	-43 (2.0)	-75 (2.2)	-65 (2.1)
Quarter 2	-79 (8.9)	53 (8.8)	-41 (9.7)	67 (9.5)
Quarter 3	74 (9.0)	263 (8.9)	284 (9.7)	425 (9.6)
Quarter 4	662 (9.0)	748 (8.9)	808 (9.7)	855 (9.6)
Constant	-7,064 (41.9)		-7,048 (44.8)	
Infectious diseases		-6,793 (23.6)		-7,808 (24.7)
Neoplasms		-7,901 (30.1)		-9,201 (31.8)
Endocrine		-8,856 (24.1)		-10,095 (25.4)
Blood disorders		-7,177 (21.5)		-8,253 (22.6)
Mental illness		-9,900 (23.3)		-11,272 (24.5)
Nervous system		1,719 (32.8)		641 (35.0)
Circulatory system		-6,187 (25.6)		-7,584 (27.1)
Respiratory system		-4,858 (40.4)		-6,019 (42.7)
Digestive system		-7,135 (31.4)		-8,412 (33.2)
Genitourinary system		-9,432 (24.8)		-10,738 (26.0)
Skin conditions		-4,340 (21.3)		-5,582 (22.3)
Musculoskeletal conditions		-5,354 (21.8)		-6,414 (23.0)
Injury and poisoning		-5,205 (22.8)		-6,469 (23.8)
Signs/symptoms		-9,448 (37.3)		-10,634 (39.0)
Const		-641 (45.9)		588 (48.8)
N	14,531,307	14,531,307	14,020,251	14,020,251
Sample mean	9,160	9,160	9,709	9,709

Appendix B: Regression coefficients from model 2

	2005		2006	
	β (SE)			
Outcome: Encounter spending				
Age	37 (0.2)	34 (0.2)	36 (0.2)	33 (0.2)
Female	-368 (2.9)	-261 (2.8)	-384 (3.1)	-266 (2.9)
White	-9 (9.6)	77 (9.1)	-10 (10.1)	91 (9.5)
Black	-329 (10.5)	-245 (9.9)	-310 (11.0)	-215 (10.4)
Hispanic	-359 (13.3)	-284 (12.5)	-355 (14.2)	-269 (13.3)
Revisit	354 (10.1)	202 (9.5)	388 (10.8)	237 (10.2)
Heart attack	128 (5.2)	226 (4.9)	79 (5.4)	164 (5.1)
Alzheimer's	147 (4.3)	58 (4.0)	158 (4.5)	65 (4.2)
Atrial fibrillation	564 (4.3)	514 (4.0)	604 (4.4)	544 (4.1)
Chronic kidney disease	682 (3.7)	452 (3.5)	651 (3.9)	410 (3.7)
COPD	630 (3.5)	461 (3.3)	650 (3.7)	479 (3.5)
Congestive heart failure	299 (3.2)	295 (3.0)	289 (3.3)	290 (3.1)
Diabetes	242 (11.1)	312 (10.4)	223 (11.7)	291 (11.0)
Hip fracture	-101 (3.1)	-160 (3.0)	-103 (3.3)	-151 (3.1)
Ischemic heart disease	-162 (3.9)	-43 (3.7)	-189 (4.2)	-70 (3.9)
Depression	-92 (5.1)	7 (4.8)	-87 (5.3)	7 (5.0)
Osteoporosis	166 (4.9)	180 (4.7)	157 (5.3)	164 (5.0)
Stroke	298 (3.2)	248 (3.1)	336 (3.4)	277 (3.2)
Anemia	-240 (5.8)	-270 (5.4)	-238 (6.0)	-269 (5.7)
Asthma	40 (4.6)	-94 (4.3)	39 (4.8)	-92 (4.5)
Cancer	-137 (11.9)	-175 (11.1)	-108 (12.7)	-153 (12.0)
Medicaid	-768 (4.0)	-587 (3.7)	-819 (4.3)	-618 (4.0)
Median income	-21 (0.9)	-14 (0.8)	-30 (0.9)	-21 (0.9)
Quarter 2	-117 (3.8)	4 (3.6)	-119 (4.1)	-19 (3.8)
Quarter 3	-163 (3.8)	10 (3.6)	-110 (4.1)	23 (3.9)
Quarter 4	140 (3.9)	226 (3.6)	157 (4.1)	207 (3.9)
Constant	779 (18.0)		1,034 (18.9)	
Infectious diseases		-5,928 (9.7)		-6,676 (10.0)
Neoplasms		-6,529 (12.3)		-7,409 (12.8)
Endocrine		-7,241 (9.9)		-8,092 (10.3)
Blood disorders		-6,213 (8.8)		-6,992 (9.1)
Mental Illness		-7,342 (9.6)		-8,227 (9.9)
Nervous system		1,377 (13.5)		695 (14.1)
Circulatory system		-5,819 (10.5)		-6,762 (10.9)
Respiratory system		-4,841 (16.6)		-5,640 (17.2)
Digestive system		-6,849 (12.9)		-7,754 (13.4)
Genitourinary system		-6,995 (10.1)		-7,838 (10.5)
Skin conditions		-3,568 (8.7)		-4,374 (9.0)
Musculoskeletal conditions		-4,260 (8.9)		-4,990 (9.3)
Injury and poisoning		-3,964 (9.3)		-4,791 (9.6)
Signs/symptoms		-7,792 (15.3)		-8,665 (15.7)
Const		5,875 (18.8)		6,935 (19.7)
N	14,531,307	14,531,307	14,020,251	14,020,251
Sample mean	3,701	3,701	3,845	3,845

Appendix B: Regression coefficients from model 2

	2005		2006	
	β (SE)			
Outcome: Mortality				
Age	0.00282 (0.00001)	0.00278 (0.00001)	0.00268 (0.00001)	0.00265 (0.00001)
Female	-0.01548 (0.00013)	-0.01252 (0.00013)	-0.01537 (0.00014)	-0.01219 (0.00013)
White	-0.01829 (0.00044)	-0.01582 (0.00043)	-0.01777 (0.00044)	-0.01504 (0.00043)
Black	-0.01235 (0.00048)	-0.01135 (0.00048)	-0.01217 (0.00048)	-0.01101 (0.00047)
Hispanic	-0.00945 (0.00061)	-0.00754 (0.00060)	-0.00878 (0.00062)	-0.00658 (0.00061)
Revisit	0.01056 (0.00046)	0.00843 (0.00045)	0.00888 (0.00047)	0.00700 (0.00046)
Heart attack	0.03475 (0.00024)	0.03536 (0.00023)	0.03269 (0.00023)	0.03293 (0.00023)
Alzheimer's	0.00487 (0.00020)	0.00356 (0.00019)	0.00417 (0.00020)	0.00296 (0.00019)
Atrial fibrillation	0.01744 (0.00020)	0.01628 (0.00019)	0.01705 (0.00019)	0.01583 (0.00019)
Chronic kidney disease	0.02416 (0.00017)	0.01777 (0.00017)	0.02293 (0.00017)	0.01610 (0.00017)
COPD	0.02368 (0.00016)	0.02021 (0.00016)	0.02311 (0.00016)	0.01968 (0.00016)
Congestive heart failure	0.00330 (0.00014)	0.00266 (0.00014)	0.00298 (0.00014)	0.00247 (0.00014)
Diabetes	0.01125 (0.00051)	0.01249 (0.00050)	0.01015 (0.00051)	0.01144 (0.00050)
Hip fracture	-0.01310 (0.00014)	-0.01336 (0.00014)	-0.01333 (0.00015)	-0.01321 (0.00014)
Ischemic heart disease	0.00226 (0.00018)	0.00439 (0.00018)	0.00185 (0.00018)	0.00382 (0.00018)
Depression	-0.00428 (0.00023)	-0.00195 (0.00023)	-0.00510 (0.00023)	-0.00297 (0.00023)
Osteoporosis	0.00593 (0.00023)	0.00603 (0.00022)	0.00489 (0.00023)	0.00487 (0.00023)
Stroke	0.01397 (0.00015)	0.01283 (0.00015)	0.01446 (0.00015)	0.01309 (0.00015)
Anemia	-0.01438 (0.00026)	-0.01532 (0.00026)	-0.01486 (0.00026)	-0.01588 (0.00026)
Asthma	0.01180 (0.00021)	0.00699 (0.00021)	0.01197 (0.00021)	0.00728 (0.00021)
Cancer	0.00931 (0.00054)	0.00841 (0.00053)	0.00511 (0.00056)	0.00410 (0.00055)
Medicaid	-0.07581 (0.00018)	-0.07156 (0.00018)	-0.07436 (0.00019)	-0.06991 (0.00018)
Median income	-0.00176 (0.00004)	-0.00155 (0.00004)	-0.00177 (0.00004)	-0.00153 (0.00004)
Quarter 2	-0.00674 (0.00018)	-0.00376 (0.00017)	-0.00504 (0.00018)	-0.00257 (0.00018)
Quarter 3	-0.00744 (0.00018)	-0.00334 (0.00017)	-0.00415 (0.00018)	-0.00108 (0.00018)
Quarter 4	0.00159 (0.00018)	0.00379 (0.00017)	0.00312 (0.00018)	0.00442 (0.00018)
Constant	-0.12513 (0.00082)		-0.11751 (0.00083)	
Infectious diseases		-0.16140 (0.00046)		-0.16811 (0.00046)
Neoplasms		-0.18402 (0.00059)		-0.19092 (0.00059)
Endocrine		-0.18746 (0.00047)		-0.19466 (0.00047)
Blood disorders		-0.18195 (0.00042)		-0.18898 (0.00042)
Mental illness		-0.18833 (0.00046)		-0.19587 (0.00045)
Nervous system		0.07064 (0.00064)		0.06405 (0.00065)
Circulatory system		-0.15428 (0.00050)		-0.16525 (0.00050)
Respiratory system		-0.14998 (0.00079)		-0.15615 (0.00079)
Digestive system		-0.17523 (0.00062)		-0.18152 (0.00061)
Genitourinary system		-0.18331 (0.00049)		-0.19064 (0.00048)
Skin conditions		-0.12512 (0.00042)		-0.13549 (0.00041)
Musculoskeletal conditions		-0.12624 (0.00043)		-0.13095 (0.00043)
Injury and poisoning		-0.16439 (0.00045)		-0.17291 (0.00044)
Signs/symptoms		-0.15316 (0.00073)		-0.16327 (0.00072)
Const		0.02256 (0.00090)		0.03791 (0.00090)
N	14,531,307	14,531,307	14,020,251	14,020,251
Sample mean	0.06310	0.06310	0.06208	0.06208

Appendix B: Regression coefficients from model 2

	2005		2006	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00562 (0.00002)	0.00537 (0.00002)	0.00545 (0.00002)	0.00522 (0.00002)
Female	-0.02514 (0.00027)	-0.01257 (0.00025)	-0.02531 (0.00028)	-0.01215 (0.00026)
White	0.00429 (0.00089)	0.01365 (0.00082)	0.00656 (0.00089)	0.01678 (0.00083)
Black	-0.03404 (0.00097)	-0.03007 (0.00090)	-0.03057 (0.00098)	-0.02601 (0.00090)
Hispanic	-0.03270 (0.00123)	-0.02610 (0.00114)	-0.03285 (0.00125)	-0.02585 (0.00116)
Revisit	0.03711 (0.00093)	0.01612 (0.00086)	0.03786 (0.00096)	0.01747 (0.00089)
Heart attack	0.01758 (0.00048)	0.03116 (0.00044)	0.01429 (0.00048)	0.02740 (0.00044)
Alzheimer's	0.01872 (0.00039)	0.00686 (0.00037)	0.01843 (0.00040)	0.00660 (0.00037)
Atrial fibrillation	0.04940 (0.00039)	0.04207 (0.00036)	0.05106 (0.00038)	0.04296 (0.00036)
Chronic kidney disease	0.07501 (0.00034)	0.05283 (0.00032)	0.06974 (0.00034)	0.04790 (0.00032)
COPD	0.07021 (0.00032)	0.04929 (0.00030)	0.07004 (0.00033)	0.05010 (0.00031)
Congestive heart failure	0.03253 (0.00029)	0.02643 (0.00027)	0.03009 (0.00029)	0.02509 (0.00027)
Diabetes	0.01917 (0.00102)	0.03175 (0.00094)	0.01746 (0.00103)	0.02994 (0.00096)
Hip fracture	-0.00197 (0.00029)	-0.01271 (0.00027)	-0.00251 (0.00029)	-0.01223 (0.00027)
Ischemic heart disease	-0.00988 (0.00036)	0.00271 (0.00034)	-0.01087 (0.00037)	0.00163 (0.00034)
Depression	-0.00585 (0.00047)	0.00663 (0.00043)	-0.00484 (0.00047)	0.00698 (0.00043)
Osteoporosis	0.02318 (0.00046)	0.02473 (0.00042)	0.02177 (0.00047)	0.02309 (0.00043)
Stroke	0.02857 (0.00030)	0.02466 (0.00028)	0.03005 (0.00030)	0.02585 (0.00028)
Anemia	-0.01500 (0.00053)	-0.01817 (0.00049)	-0.01490 (0.00053)	-0.01814 (0.00049)
Asthma	0.00346 (0.00042)	-0.00457 (0.00039)	0.00327 (0.00043)	-0.00446 (0.00040)
Cancer	0.00874 (0.00109)	0.00070 (0.00101)	0.01643 (0.00113)	0.00858 (0.00104)
Medicaid	-0.06214 (0.00037)	-0.04685 (0.00034)	-0.06312 (0.00038)	-0.04709 (0.00035)
Median income	-0.00169 (0.00008)	-0.00086 (0.00007)	-0.00227 (0.00008)	-0.00133 (0.00007)
Quarter 2	-0.02072 (0.00035)	-0.00729 (0.00033)	-0.01666 (0.00036)	-0.00606 (0.00034)
Quarter 3	-0.02997 (0.00035)	-0.01069 (0.00033)	-0.01937 (0.00036)	-0.00479 (0.00034)
Quarter 4	-0.00600 (0.00036)	0.00472 (0.00033)	0.00016 (0.00036)	0.00620 (0.00034)
Constant	-0.01132 (0.00165)		-0.00027 (0.00167)	
Infectious diseases		-0.32556 (0.00088)		-0.33658 (0.00087)
Neoplasms		-0.38966 (0.00112)		-0.41066 (0.00112)
Endocrine		-0.54364 (0.00090)		-0.56458 (0.00090)
Blood disorders		-0.47871 (0.00080)		-0.49846 (0.00080)
Mental illness		-0.52893 (0.00087)		-0.55474 (0.00086)
Nervous system		0.11131 (0.00122)		0.08914 (0.00123)
Circulatory system		-0.22769 (0.00095)		-0.26788 (0.00096)
Respiratory system		-0.13450 (0.00150)		-0.15232 (0.00150)
Digestive system		-0.39135 (0.00117)		-0.41616 (0.00117)
Genitourinary system		-0.48936 (0.00092)		-0.50884 (0.00092)
Skin conditions		-0.09322 (0.00079)		-0.12160 (0.00079)
Musculoskeletal conditions		-0.20610 (0.00081)		-0.22660 (0.00081)
Injury and poisoning		-0.12983 (0.00085)		-0.15898 (0.00084)
Signs/symptoms		-0.58094 (0.00139)		-0.59765 (0.00137)
Const		0.28214 (0.00171)		0.31563 (0.00172)
N	14,531,307	14,531,307	14,020,251	14,020,251
Sample mean	0.44788	0.44788	0.45036	0.45036

Appendix B: Regression coefficients from model 2

	2006		2007	
	β (SE)			
Outcome: Admission				
Age	0.00529 (0.00002)	0.00365 (0.00001)	0.00544 (0.00002)	0.00370 (0.00001)
Female	-0.02211 (0.00027)	-0.00070 (0.00021)	-0.02331 (0.00027)	-0.00108 (0.00021)
White	0.00681 (0.00087)	0.00735 (0.00066)	0.00903 (0.00085)	0.00879 (0.00065)
Black	-0.02967 (0.00096)	-0.01827 (0.00073)	-0.02713 (0.00093)	-0.01578 (0.00071)
Hispanic	-0.03112 (0.00124)	-0.01969 (0.00094)	-0.03476 (0.00121)	-0.02163 (0.00093)
Revisit	0.03458 (0.00096)	0.01219 (0.00074)	0.03844 (0.00096)	0.01463 (0.00074)
Heart attack	0.01470 (0.00047)	0.01654 (0.00036)	0.01086 (0.00046)	0.01411 (0.00035)
Alzheimer's	0.01709 (0.00039)	0.00759 (0.00030)	0.01616 (0.00039)	0.00722 (0.00030)
Atrial fibrillation	0.04913 (0.00037)	0.02796 (0.00028)	0.05023 (0.00035)	0.02802 (0.00027)
Chronic kidney disease	0.07181 (0.00034)	0.01874 (0.00027)	0.07466 (0.00034)	0.01868 (0.00026)
COPD	0.06992 (0.00033)	0.03364 (0.00025)	0.06898 (0.00033)	0.03283 (0.00025)
Congestive heart failure	0.02547 (0.00029)	0.01103 (0.00022)	0.02338 (0.00029)	0.01015 (0.00022)
Diabetes	0.01972 (0.00103)	0.01936 (0.00078)	0.01886 (0.00102)	0.01863 (0.00078)
Hip fracture	-0.00870 (0.00029)	-0.01405 (0.00022)	-0.01237 (0.00029)	-0.01502 (0.00022)
Ischemic heart disease	-0.01126 (0.00036)	-0.00433 (0.00027)	-0.01266 (0.00036)	-0.00543 (0.00027)
Depression	-0.00928 (0.00046)	0.00068 (0.00035)	-0.01114 (0.00046)	-0.00085 (0.00035)
Osteoporosis	0.02104 (0.00047)	0.01912 (0.00036)	0.01775 (0.00047)	0.01758 (0.00036)
Stroke	0.02863 (0.00030)	0.01589 (0.00023)	0.02605 (0.00030)	0.01458 (0.00023)
Anemia	-0.01518 (0.00053)	-0.02608 (0.00040)	-0.01460 (0.00053)	-0.02581 (0.00040)
Asthma	0.00119 (0.00042)	-0.00590 (0.00032)	-0.00066 (0.00042)	-0.00680 (0.00032)
Cancer	0.01100 (0.00114)	-0.00205 (0.00087)	0.01214 (0.00111)	-0.00216 (0.00085)
Medicaid	-0.06168 (0.00037)	-0.03618 (0.00028)	-0.06252 (0.00037)	-0.03616 (0.00028)
Median income	-0.00295 (0.00008)	-0.00114 (0.00006)	-0.00256 (0.00008)	-0.00080 (0.00006)
Quarter 2	-0.01462 (0.00036)	-0.00710 (0.00027)	-0.02090 (0.00036)	-0.01109 (0.00027)
Quarter 3	-0.01762 (0.00036)	-0.00832 (0.00028)	-0.03370 (0.00036)	-0.01781 (0.00027)
Quarter 4	0.00273 (0.00036)	0.00260 (0.00028)	-0.01605 (0.00036)	-0.01000 (0.00027)
Constant	0.00346 (0.00165)		0.00424 (0.00162)	
Infectious diseases		-0.16239 (0.00080)		-0.16317 (0.00077)
Neoplasms		-0.14175 (0.00121)		-0.13010 (0.00119)
Endocrine		-0.58320 (0.00085)		-0.58164 (0.00082)
Blood disorders		-0.51496 (0.00070)		-0.51060 (0.00067)
Mental illness		-0.66445 (0.00077)		-0.67133 (0.00074)
Nervous system		0.04512 (0.00108)		0.04220 (0.00106)
Circulatory system		-0.31297 (0.00083)		-0.31224 (0.00081)
Respiratory system		-0.03286 (0.00142)		-0.02944 (0.00135)
Digestive system		-0.39709 (0.00112)		-0.39592 (0.00110)
Genitourinary system		-0.44891 (0.00089)		-0.45120 (0.00086)
Skin conditions		-0.17521 (0.00068)		-0.18500 (0.00065)
Musculoskeletal conditions		-0.16460 (0.00072)		-0.15859 (0.00068)
Injury and poisoning		-0.18577 (0.00073)		-0.19511 (0.00070)
Signs/symptoms		-0.88429 (0.00066)		-0.88502 (0.00063)
Const		0.61089 (0.00141)		0.61298 (0.00138)
N	13,999,667	13,999,667	14,121,780	14,121,780
Sample mean	0.43734	0.43734	0.44111	0.44111

Appendix B: Regression coefficients from model 2

	2006		2007	
	β (SE)			
Outcome: 90-day spending				
Age	178 (0.5)	152 (0.5)	188 (0.5)	159 (0.5)
Female	-398 (7.7)	-150 (7.4)	-430 (8.2)	-158 (7.9)
White	759 (24.5)	741 (23.3)	800 (25.5)	773 (24.3)
Black	809 (27.0)	1,040 (25.6)	956 (28.2)	1,205 (26.9)
Hispanic	-451 (34.9)	-261 (33.2)	-656 (36.6)	-428 (34.9)
Revisit	806 (27.2)	604 (25.9)	910 (29.1)	689 (27.7)
Heart attack	1,309 (13.2)	1,177 (12.5)	1,294 (13.9)	1,169 (13.3)
Alzheimer's	553 (11.0)	461 (10.5)	578 (11.7)	494 (11.1)
Atrial fibrillation	2,209 (10.3)	1,915 (9.8)	2,492 (10.6)	2,176 (10.2)
Chronic kidney disease	2,141 (9.7)	1,474 (9.3)	2,331 (10.3)	1,614 (10.0)
COPD	2,299 (9.3)	1,860 (8.9)	2,467 (10.0)	2,018 (9.5)
Congestive heart failure	1,331 (8.2)	1,172 (7.8)	1,424 (8.7)	1,270 (8.3)
Diabetes	1,257 (29.0)	1,086 (27.5)	1,284 (30.8)	1,097 (29.4)
Hip fracture	-306 (8.3)	-281 (7.9)	-330 (8.8)	-259 (8.4)
Ischemic heart disease	1,041 (10.2)	1,097 (9.7)	1,166 (10.7)	1,218 (10.2)
Depression	364 (13.0)	444 (12.4)	331 (13.8)	414 (13.1)
Osteoporosis	1,435 (13.3)	1,387 (12.6)	1,468 (14.2)	1,438 (13.6)
Stroke	1,360 (8.5)	1,150 (8.1)	1,559 (9.0)	1,348 (8.6)
Anemia	-189 (14.9)	-280 (14.2)	-201 (15.8)	-289 (15.1)
Asthma	-43 (11.9)	-173 (11.4)	-64 (12.7)	-185 (12.1)
Cancer	878 (32.3)	760 (30.7)	976 (33.5)	840 (32.0)
Medicaid	-711 (10.5)	-316 (10.0)	-784 (11.2)	-360 (10.7)
Median income	-107 (2.3)	-86 (2.2)	-77 (2.4)	-56 (2.3)
Quarter 2	-114 (10.2)	-39 (9.7)	-129 (10.7)	-18 (10.2)
Quarter 3	180 (10.2)	265 (9.7)	300 (10.8)	471 (10.3)
Quarter 4	776 (10.2)	729 (9.7)	1,061 (10.8)	1,103 (10.3)
Constant	-6,768 (46.6)		-7,516 (48.9)	
Infectious diseases		-7,834 (28.3)		-8,330 (29.0)
Neoplasms		-7,747 (42.7)		-7,904 (44.7)
Endocrine		-12,067 (29.8)		-12,475 (31.1)
Blood disorders		-8,961 (24.7)		-9,189 (25.2)
Mental illness		-14,649 (27.0)		-15,446 (27.7)
Nervous system		-1,504 (37.9)		-1,562 (39.9)
Circulatory system		-10,179 (29.3)		-10,707 (30.5)
Respiratory system		-7,380 (49.9)		-7,400 (50.9)
Digestive system		-10,460 (39.3)		-10,873 (41.3)
Genitourinary system		-11,955 (31.3)		-12,485 (32.3)
Skin conditions		-8,063 (23.9)		-8,714 (24.4)
Musculoskeletal conditions		-7,441 (25.2)		-7,918 (25.6)
Injury and poisoning		-8,690 (25.8)		-9,260 (26.4)
Signs/symptoms		-16,493 (23.4)		-17,275 (23.7)
Const		6,441 (49.8)		6,373 (52.0)
N	13,999,667	13,999,667	14,121,780	14,121,780
Sample mean	10,099	10,099	10,763	10,763

Appendix B: Regression coefficients from model 2

	2006		2007	
	β (SE)			
Outcome: Encounter spending				
Age	33 (0.2)	19 (0.2)	37 (0.2)	22 (0.2)
Female	-380 (3.2)	-203 (2.8)	-407 (3.4)	-218 (3.0)
White	-67 (10.2)	-36 (8.9)	-83 (10.5)	-58 (9.2)
Black	-403 (11.2)	-251 (9.8)	-401 (11.6)	-242 (10.1)
Hispanic	-403 (14.6)	-276 (12.6)	-475 (15.1)	-329 (13.2)
Revisit	339 (11.3)	169 (9.9)	382 (12.0)	200 (10.5)
Heart attack	127 (5.5)	97 (4.8)	131 (5.7)	104 (5.0)
Alzheimer's	161 (4.6)	81 (4.0)	137 (4.8)	62 (4.2)
Atrial fibrillation	620 (4.3)	452 (3.7)	746 (4.4)	564 (3.8)
Chronic kidney disease	678 (4.0)	204 (3.6)	735 (4.2)	231 (3.8)
COPD	674 (3.9)	371 (3.4)	705 (4.1)	397 (3.6)
Congestive heart failure	284 (3.4)	216 (3.0)	316 (3.6)	250 (3.1)
Diabetes	262 (12.1)	216 (10.5)	287 (12.7)	232 (11.1)
Hip fracture	-118 (3.5)	-133 (3.0)	-144 (3.6)	-128 (3.2)
Ischemic heart disease	-178 (4.2)	-102 (3.7)	-164 (4.4)	-90 (3.9)
Depression	-88 (5.4)	-7 (4.7)	-106 (5.7)	-23 (4.9)
Osteoporosis	179 (5.5)	149 (4.8)	184 (5.9)	168 (5.1)
Stroke	387 (3.5)	254 (3.1)	450 (3.7)	320 (3.3)
Anemia	-251 (6.2)	-327 (5.4)	-252 (6.5)	-327 (5.7)
Asthma	56 (5.0)	-56 (4.3)	45 (5.2)	-58 (4.6)
Cancer	-144 (13.4)	-217 (11.7)	-91 (13.8)	-175 (12.1)
Medicaid	-860 (4.4)	-573 (3.8)	-927 (4.6)	-623 (4.0)
Median income	-34 (0.9)	-18 (0.8)	-30 (1.0)	-14 (0.9)
Quarter 2	-139 (4.2)	-74 (3.7)	-150 (4.4)	-58 (3.9)
Quarter 3	-150 (4.3)	-71 (3.7)	-133 (4.5)	7 (3.9)
Quarter 4	148 (4.3)	131 (3.7)	237 (4.5)	291 (3.9)
Constant	1,383 (19.4)		1,130 (20.1)	
Infectious diseases		-7,215 (10.8)		-7,653 (11.0)
Neoplasms		-7,475 (16.3)		-7,658 (16.9)
Endocrine		-9,774 (11.4)		-10,106 (11.7)
Blood disorders		-8,174 (9.4)		-8,402 (9.5)
Mental Illness		-10,616 (10.3)		-11,148 (10.5)
Nervous system		-532 (14.4)		-642 (15.1)
Circulatory system		-8,719 (11.2)		-9,119 (11.5)
Respiratory system		-6,574 (19.0)		-6,731 (19.2)
Digestive system		-9,399 (15.0)		-9,722 (15.6)
Genitourinary system		-9,216 (11.9)		-9,633 (12.2)
Skin conditions		-6,054 (9.1)		-6,513 (9.2)
Musculoskeletal conditions		-5,897 (9.6)		-6,252 (9.7)
Injury and poisoning		-6,225 (9.8)		-6,635 (10.0)
Signs/symptoms		-11,657 (8.9)		-12,129 (9.0)
Const		10,870 (19.0)		11,066 (19.7)
N	13,999,667	13,999,667	14,121,780	14,121,780
Sample mean	3,910	3,910	4,089	4,089

Appendix B: Regression coefficients from model 2

	2006		2007	
	β (SE)			
Outcome: Mortality				
Age	0.00226 (0.00001)	0.00218 (0.00001)	0.00266 (0.00001)	0.00255 (0.00001)
Female	-0.01461 (0.00014)	-0.01114 (0.00013)	-0.01522 (0.00014)	-0.01174 (0.00013)
White	-0.01765 (0.00043)	-0.01565 (0.00042)	-0.01810 (0.00042)	-0.01615 (0.00042)
Black	-0.01324 (0.00047)	-0.01153 (0.00046)	-0.01412 (0.00047)	-0.01232 (0.00046)
Hispanic	-0.00714 (0.00061)	-0.00494 (0.00060)	-0.00757 (0.00061)	-0.00519 (0.00060)
Revisit	0.01056 (0.00048)	0.01052 (0.00047)	0.01146 (0.00048)	0.01130 (0.00047)
Heart attack	0.03344 (0.00023)	0.03096 (0.00023)	0.03119 (0.00023)	0.02887 (0.00023)
Alzheimer's	0.00527 (0.00019)	0.00537 (0.00019)	0.00412 (0.00019)	0.00438 (0.00019)
Atrial fibrillation	0.01534 (0.00018)	0.01376 (0.00018)	0.01478 (0.00018)	0.01296 (0.00017)
Chronic kidney disease	0.02248 (0.00017)	0.01284 (0.00017)	0.02384 (0.00017)	0.01416 (0.00017)
COPD	0.02376 (0.00016)	0.02018 (0.00016)	0.02336 (0.00017)	0.01985 (0.00016)
Congestive heart failure	0.00111 (0.00014)	0.00034 (0.00014)	0.00153 (0.00014)	0.00080 (0.00014)
Diabetes	0.01084 (0.00051)	0.01063 (0.00050)	0.00971 (0.00051)	0.00957 (0.00050)
Hip fracture	-0.01283 (0.00015)	-0.01128 (0.00014)	-0.01341 (0.00015)	-0.01162 (0.00014)
Ischemic heart disease	0.00074 (0.00018)	0.00171 (0.00018)	0.00113 (0.00018)	0.00201 (0.00017)
Depression	-0.00537 (0.00023)	-0.00394 (0.00022)	-0.00577 (0.00023)	-0.00429 (0.00022)
Osteoporosis	0.00393 (0.00023)	0.00342 (0.00023)	0.00312 (0.00024)	0.00278 (0.00023)
Stroke	0.01468 (0.00015)	0.01261 (0.00015)	0.01348 (0.00015)	0.01154 (0.00015)
Anemia	-0.01442 (0.00026)	-0.01663 (0.00026)	-0.01348 (0.00026)	-0.01555 (0.00026)
Asthma	0.01189 (0.00021)	0.00791 (0.00021)	0.01186 (0.00021)	0.00839 (0.00021)
Cancer	-0.00130 (0.00057)	-0.00192 (0.00056)	0.00486 (0.00056)	0.00395 (0.00055)
Medicaid	-0.07457 (0.00019)	-0.07000 (0.00018)	-0.07517 (0.00019)	-0.07059 (0.00018)
Median income	-0.00170 (0.00004)	-0.00145 (0.00004)	-0.00185 (0.00004)	-0.00159 (0.00004)
Quarter 2	-0.00444 (0.00018)	-0.00327 (0.00018)	-0.00650 (0.00018)	-0.00441 (0.00017)
Quarter 3	-0.00436 (0.00018)	-0.00281 (0.00018)	-0.00675 (0.00018)	-0.00388 (0.00018)
Quarter 4	0.00354 (0.00018)	0.00356 (0.00018)	0.00082 (0.00018)	0.00253 (0.00018)
Constant	-0.08625 (0.00082)		-0.11247 (0.00081)	
Infectious diseases		-0.18183 (0.00051)		-0.18233 (0.00050)
Neoplasms		-0.21226 (0.00077)		-0.21109 (0.00076)
Endocrine		-0.22599 (0.00054)		-0.22422 (0.00053)
Blood disorders		-0.21251 (0.00045)		-0.21107 (0.00043)
Mental illness		-0.22651 (0.00049)		-0.22513 (0.00047)
Nervous system		0.04447 (0.00069)		0.04131 (0.00068)
Circulatory system		-0.19417 (0.00053)		-0.19347 (0.00052)
Respiratory system		-0.17652 (0.00091)		-0.17554 (0.00087)
Digestive system		-0.20944 (0.00071)		-0.20622 (0.00071)
Genitourinary system		-0.21108 (0.00057)		-0.20721 (0.00055)
Skin conditions		-0.17995 (0.00043)		-0.17920 (0.00042)
Musculoskeletal conditions		-0.13961 (0.00046)		-0.14104 (0.00044)
Injury and poisoning		-0.20182 (0.00047)		-0.20005 (0.00045)
Signs/symptoms		-0.21265 (0.00042)		-0.21164 (0.00041)
Const		0.10779 (0.00090)		0.08112 (0.00089)
N	13,999,667	13,999,667	14,121,780	14,121,780
Sample mean	0.06167	0.06167	0.06299	0.06299

Appendix B: Regression coefficients from model 2

	2006		2007	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00512 (0.00002)	0.00351 (0.00001)	0.00528 (0.00002)	0.00356 (0.00001)
Female	-0.02532 (0.00028)	-0.00432 (0.00021)	-0.02663 (0.00027)	-0.00484 (0.00021)
White	0.00528 (0.00087)	0.00572 (0.00067)	0.00772 (0.00085)	0.00737 (0.00066)
Black	-0.03336 (0.00096)	-0.02187 (0.00074)	-0.03081 (0.00094)	-0.01941 (0.00073)
Hispanic	-0.03222 (0.00125)	-0.02089 (0.00096)	-0.03573 (0.00122)	-0.02272 (0.00094)
Revisit	0.03769 (0.00097)	0.01451 (0.00075)	0.04112 (0.00097)	0.01653 (0.00075)
Heart attack	0.01305 (0.00047)	0.01541 (0.00036)	0.00909 (0.00046)	0.01284 (0.00036)
Alzheimer's	0.01717 (0.00039)	0.00716 (0.00030)	0.01630 (0.00039)	0.00682 (0.00030)
Atrial fibrillation	0.05140 (0.00037)	0.03050 (0.00028)	0.05229 (0.00036)	0.03041 (0.00027)
Chronic kidney disease	0.06990 (0.00035)	0.01818 (0.00027)	0.07251 (0.00034)	0.01797 (0.00027)
COPD	0.06984 (0.00033)	0.03370 (0.00026)	0.06919 (0.00033)	0.03319 (0.00026)
Congestive heart failure	0.02547 (0.00029)	0.01142 (0.00023)	0.02361 (0.00029)	0.01074 (0.00022)
Diabetes	0.01959 (0.00103)	0.01941 (0.00080)	0.01879 (0.00103)	0.01872 (0.00079)
Hip fracture	-0.00726 (0.00030)	-0.01317 (0.00023)	-0.01094 (0.00029)	-0.01417 (0.00023)
Ischemic heart disease	-0.01240 (0.00036)	-0.00520 (0.00028)	-0.01398 (0.00036)	-0.00651 (0.00028)
Depression	-0.00960 (0.00046)	0.00046 (0.00036)	-0.01122 (0.00046)	-0.00086 (0.00035)
Osteoporosis	0.02081 (0.00047)	0.01887 (0.00037)	0.01748 (0.00047)	0.01727 (0.00037)
Stroke	0.02907 (0.00030)	0.01683 (0.00023)	0.02662 (0.00030)	0.01564 (0.00023)
Anemia	-0.01648 (0.00053)	-0.02688 (0.00041)	-0.01601 (0.00053)	-0.02671 (0.00041)
Asthma	0.00052 (0.00043)	-0.00616 (0.00033)	-0.00107 (0.00042)	-0.00682 (0.00033)
Cancer	0.00921 (0.00115)	-0.00371 (0.00089)	0.01036 (0.00112)	-0.00377 (0.00087)
Medicaid	-0.06549 (0.00038)	-0.04003 (0.00029)	-0.06643 (0.00037)	-0.04013 (0.00029)
Median income	-0.00284 (0.00008)	-0.00107 (0.00006)	-0.00246 (0.00008)	-0.00073 (0.00006)
Quarter 2	-0.01445 (0.00036)	-0.00702 (0.00028)	-0.02036 (0.00036)	-0.01071 (0.00028)
Quarter 3	-0.01731 (0.00036)	-0.00812 (0.00028)	-0.03275 (0.00036)	-0.01712 (0.00028)
Quarter 4	0.00362 (0.00036)	0.00348 (0.00028)	-0.01438 (0.00036)	-0.00844 (0.00028)
Constant	0.03216 (0.00166)		0.03238 (0.00163)	
Infectious diseases		-0.16231 (0.00082)		-0.16308 (0.00079)
Neoplasms		-0.14147 (0.00124)		-0.12991 (0.00121)
Endocrine		-0.57999 (0.00086)		-0.57858 (0.00084)
Blood disorders		-0.50117 (0.00071)		-0.49611 (0.00068)
Mental illness		-0.65813 (0.00078)		-0.66486 (0.00075)
Nervous system		0.04692 (0.00110)		0.04442 (0.00108)
Circulatory system		-0.31087 (0.00085)		-0.31024 (0.00082)
Respiratory system		-0.03144 (0.00144)		-0.02802 (0.00138)
Digestive system		-0.39194 (0.00114)		-0.38998 (0.00112)
Genitourinary system		-0.44294 (0.00091)		-0.44504 (0.00088)
Skin conditions		-0.15795 (0.00069)		-0.16706 (0.00066)
Musculoskeletal conditions		-0.16222 (0.00073)		-0.15617 (0.00069)
Injury and poisoning		-0.18493 (0.00075)		-0.19396 (0.00072)
Signs/symptoms		-0.86760 (0.00068)		-0.86796 (0.00064)
Const		0.62722 (0.00144)		0.62848 (0.00141)
N	13,999,667	13,999,667	14,121,780	14,121,780
Sample mean	0.45016	0.45016	0.45434	0.45434

Appendix B: Regression coefficients from model 2

	2008		2009	
	β (SE)			
Outcome: Admission				
Age	0.00472 (0.00002)	0.00467 (0.00002)	0.00466 (0.00002)	0.00458 (0.00002)
Female	-0.02272 (0.00028)	-0.01048 (0.00026)	-0.02511 (0.00027)	-0.01219 (0.00025)
White	0.00554 (0.00084)	0.01712 (0.00078)	0.00530 (0.00081)	0.01652 (0.00075)
Black	-0.03473 (0.00093)	-0.02770 (0.00086)	-0.03654 (0.00089)	-0.02889 (0.00083)
Hispanic	-0.03443 (0.00121)	-0.02816 (0.00112)	-0.03295 (0.00117)	-0.02669 (0.00109)
Revisit	0.03677 (0.00095)	0.02024 (0.00088)	0.03588 (0.00097)	0.01924 (0.00090)
Heart attack	0.01107 (0.00046)	0.02156 (0.00043)	0.01204 (0.00045)	0.02145 (0.00042)
Alzheimer's	0.01947 (0.00039)	0.01039 (0.00036)	0.01827 (0.00038)	0.00969 (0.00035)
Atrial fibrillation	0.05255 (0.00034)	0.04228 (0.00032)	0.05235 (0.00033)	0.04192 (0.00031)
Chronic kidney disease	0.07324 (0.00034)	0.04992 (0.00032)	0.07302 (0.00034)	0.04933 (0.00032)
COPD	0.07017 (0.00033)	0.05176 (0.00031)	0.06892 (0.00033)	0.05096 (0.00031)
Congestive heart failure	0.02402 (0.00029)	0.01971 (0.00027)	0.02429 (0.00028)	0.01999 (0.00026)
Diabetes	0.01938 (0.00103)	0.02905 (0.00096)	0.01806 (0.00102)	0.02714 (0.00095)
Hip fracture	-0.00829 (0.00029)	-0.01382 (0.00027)	-0.00962 (0.00029)	-0.01453 (0.00027)
Ischemic heart disease	-0.01137 (0.00035)	0.00123 (0.00032)	-0.01295 (0.00034)	-0.00005 (0.00032)
Depression	-0.00854 (0.00044)	0.00261 (0.00041)	-0.00941 (0.00044)	0.00147 (0.00041)
Osteoporosis	0.02055 (0.00047)	0.02180 (0.00044)	0.01734 (0.00047)	0.01849 (0.00044)
Stroke	0.02986 (0.00030)	0.02460 (0.00028)	0.02923 (0.00029)	0.02366 (0.00027)
Anemia	-0.01351 (0.00051)	-0.01647 (0.00048)	-0.01633 (0.00051)	-0.01838 (0.00047)
Asthma	0.00372 (0.00042)	-0.00454 (0.00039)	0.00303 (0.00042)	-0.00464 (0.00039)
Cancer	0.66302 (0.00193)	0.56486 (0.00180)	0.00841 (0.00111)	0.00447 (0.00103)
Medicaid	-0.06271 (0.00037)	-0.04748 (0.00035)	-0.06229 (0.00036)	-0.04667 (0.00034)
Median income	-0.00266 (0.00008)	-0.00169 (0.00007)	-0.00289 (0.00008)	-0.00181 (0.00007)
Quarter 2	-0.01916 (0.00036)	-0.01109 (0.00033)	-0.01931 (0.00036)	-0.00906 (0.00033)
Quarter 3	-0.03013 (0.00036)	-0.01748 (0.00034)	-0.02076 (0.00036)	-0.00900 (0.00033)
Quarter 4	-0.00490 (0.00036)	-0.00114 (0.00034)	-0.00158 (0.00036)	0.00280 (0.00033)
Constant	0.03627 (0.00161)		0.04060 (0.00158)	
Infectious diseases		-0.36669 (0.00082)		-0.39170 (0.00079)
Neoplasms		-0.42257 (0.00108)		-0.44282 (0.00105)
Endocrine		-0.60397 (0.00086)		-0.63746 (0.00083)
Blood disorders		-0.54113 (0.00074)		-0.56878 (0.00072)
Mental illness		-0.61385 (0.00082)		-0.63949 (0.00079)
Nervous system		0.03499 (0.00124)		0.01417 (0.00123)
Circulatory system		-0.31315 (0.00092)		-0.34542 (0.00090)
Respiratory system		-0.16922 (0.00140)		-0.18043 (0.00138)
Digestive system		-0.47356 (0.00113)		-0.50437 (0.00109)
Genitourinary system		-0.55182 (0.00087)		-0.57698 (0.00084)
Skin conditions		-0.21279 (0.00074)		-0.24566 (0.00071)
Musculoskeletal conditions		-0.27490 (0.00077)		-0.29927 (0.00074)
Injury and poisoning		-0.21298 (0.00080)		-0.23709 (0.00077)
Signs/symptoms		-0.62522 (0.00124)		-0.63993 (0.00120)
Const		0.39376 (0.00165)		0.42654 (0.00161)
N	3,766,977	3,766,977	4,262,334	4,262,334
Sample mean	0.42670	0.42670	0.41978	0.41978

Appendix B: Regression coefficients from model 2

	2008		2009	
	β (SE)			
Outcome: 90-day spending				
Age	181 (0.5)	177 (0.5)	181 (0.5)	176 (0.5)
Female	-503 (8.8)	-331 (8.6)	-524 (8.7)	-338 (8.5)
White	726 (26.7)	857 (26.3)	748 (25.9)	871 (25.4)
Black	809 (29.5)	1,008 (29.0)	821 (28.6)	1,035 (28.1)
Hispanic	-811 (38.5)	-675 (37.8)	-739 (37.6)	-598 (37.0)
Revisit	1,101 (30.2)	952 (29.7)	1,133 (31.0)	989 (30.4)
Heart attack	1,177 (14.6)	1,139 (14.4)	1,157 (14.5)	1,089 (14.3)
Alzheimer's	582 (12.3)	486 (12.1)	556 (12.2)	468 (12.0)
Atrial fibrillation	2,754 (10.9)	2,599 (10.8)	2,650 (10.7)	2,495 (10.5)
Chronic kidney disease	2,365 (10.8)	2,078 (10.8)	2,331 (10.8)	2,046 (10.8)
COPD	2,670 (10.5)	2,445 (10.4)	2,667 (10.6)	2,451 (10.4)
Congestive heart failure	1,369 (9.1)	1,325 (9.0)	1,356 (9.1)	1,306 (8.9)
Diabetes	1,359 (32.9)	1,341 (32.3)	1,441 (32.8)	1,410 (32.2)
Hip fracture	-392 (9.3)	-365 (9.2)	-439 (9.3)	-400 (9.2)
Ischemic heart disease	1,163 (11.1)	1,286 (10.9)	1,184 (10.9)	1,301 (10.7)
Depression	293 (14.1)	408 (13.9)	265 (14.0)	373 (13.7)
Osteoporosis	1,567 (15.0)	1,579 (14.8)	1,475 (15.1)	1,482 (14.9)
Stroke	1,608 (9.5)	1,482 (9.3)	1,564 (9.4)	1,433 (9.3)
Anemia	-231 (16.4)	-210 (16.1)	-235 (16.2)	-192 (16.0)
Asthma	-110 (13.3)	-284 (13.1)	-127 (13.4)	-288 (13.1)
Cancer	8,732 (61.4)	7,411 (60.4)	692 (35.7)	676 (35.1)
Medicaid	-967 (11.8)	-681 (11.6)	-874 (11.7)	-587 (11.5)
Median income	-119 (2.5)	-108 (2.5)	-124 (2.5)	-112 (2.4)
Quarter 2	-223 (11.4)	-150 (11.2)	-200 (11.4)	-95 (11.2)
Quarter 3	-93 (11.5)	23 (11.3)	244 (11.4)	342 (11.3)
Quarter 4	534 (11.6)	533 (11.4)	766 (11.5)	768 (11.3)
Constant	-6,089 (51.4)		-6,139 (50.5)	
Infectious diseases		-10,353 (27.6)		-10,911 (27.0)
Neoplasms		-11,547 (36.3)		-12,090 (35.4)
Endocrine		-12,962 (28.8)		-13,640 (28.1)
Blood disorders		-10,654 (25.0)		-11,174 (24.4)
Mental Illness		-14,499 (27.4)		-15,017 (26.8)
Nervous system		-640 (41.8)		-1,121 (41.8)
Circulatory system		-10,205 (30.8)		-10,762 (30.4)
Respiratory system		-7,394 (47.2)		-7,865 (46.8)
Digestive system		-10,920 (38.1)		-11,475 (37.1)
Genitourinary system		-13,711 (29.2)		-14,195 (28.5)
Skin conditions		-8,550 (24.8)		-9,261 (24.2)
Musculoskeletal conditions		-9,194 (25.8)		-9,837 (25.3)
Injury and poisoning		-8,861 (26.8)		-9,481 (26.2)
Signs/symptoms		-13,038 (41.7)		-13,340 (40.5)
Const		4,086 (55.5)		4,672 (54.6)
N	3,766,977	3,766,977	4,262,334	4,262,334
Sample mean	11,295	11,295	11,249	11,249

Appendix B: Regression coefficients from model 2

	2008		2009	
	β (SE)			
Outcome: Encounter spending				
Age	32 (0.2)	31 (0.2)	32 (0.2)	30 (0.2)
Female	-440 (3.6)	-317 (3.4)	-435 (3.5)	-306 (3.3)
White	-118 (11.1)	12 (10.4)	-112 (10.4)	11 (9.8)
Black	-463 (12.2)	-316 (11.5)	-469 (11.6)	-313 (10.8)
Hispanic	-488 (16.0)	-391 (15.0)	-443 (15.2)	-343 (14.2)
Revisit	423 (12.5)	285 (11.8)	421 (12.5)	285 (11.7)
Heart attack	96 (6.1)	142 (5.7)	103 (5.9)	134 (5.5)
Alzheimer's	157 (5.1)	74 (4.8)	134 (4.9)	56 (4.6)
Atrial fibrillation	871 (4.5)	778 (4.3)	811 (4.3)	718 (4.1)
Chronic kidney disease	741 (4.5)	493 (4.3)	721 (4.4)	479 (4.2)
COPD	790 (4.4)	613 (4.1)	758 (4.3)	589 (4.0)
Congestive heart failure	294 (3.8)	292 (3.6)	287 (3.7)	278 (3.4)
Diabetes	302 (13.7)	335 (12.9)	294 (13.2)	318 (12.4)
Hip fracture	-188 (3.9)	-200 (3.7)	-191 (3.8)	-197 (3.5)
Ischemic heart disease	-212 (4.6)	-88 (4.3)	-203 (4.4)	-82 (4.1)
Depression	-132 (5.9)	-36 (5.5)	-137 (5.6)	-46 (5.3)
Osteoporosis	185 (6.2)	184 (5.9)	153 (6.1)	148 (5.7)
Stroke	466 (3.9)	386 (3.7)	452 (3.8)	369 (3.6)
Anemia	-288 (6.8)	-296 (6.4)	-307 (6.6)	-299 (6.2)
Asthma	34 (5.5)	-103 (5.2)	18 (5.4)	-108 (5.1)
Cancer	5,041 (25.5)	4,021 (24.0)	-223 (14.4)	-222 (13.5)
Medicaid	-997 (4.9)	-772 (4.6)	-948 (4.7)	-722 (4.4)
Median income	-40 (1.0)	-30 (1.0)	-40 (1.0)	-29 (0.9)
Quarter 2	-169 (4.7)	-100 (4.5)	-223 (4.6)	-127 (4.3)
Quarter 3	-246 (4.8)	-135 (4.5)	-124 (4.6)	-24 (4.3)
Quarter 4	92 (4.8)	105 (4.5)	69 (4.6)	88 (4.3)
Constant	1,805 (21.3)		1,761 (20.4)	
Infectious diseases		-8,500 (11.0)		-8,816 (10.4)
Neoplasms		-9,005 (14.4)		-9,236 (13.7)
Endocrine		-9,945 (11.5)		-10,263 (10.8)
Blood disorders		-8,655 (9.9)		-8,926 (9.4)
Mental Illness		-10,301 (10.9)		-10,570 (10.3)
Nervous system		-256 (16.6)		-559 (16.1)
Circulatory system		-8,564 (12.3)		-8,824 (11.7)
Respiratory system		-6,919 (18.8)		-7,190 (18.0)
Digestive system		-9,497 (15.1)		-9,785 (14.3)
Genitourinary system		-9,748 (11.6)		-9,988 (11.0)
Skin conditions		-6,328 (9.8)		-6,705 (9.3)
Musculoskeletal conditions		-6,879 (10.2)		-7,253 (9.7)
Injury and poisoning		-6,361 (10.6)		-6,715 (10.1)
Signs/symptoms		-10,493 (16.6)		-10,709 (15.6)
Const		9,368 (22.1)		9,673 (21.0)
N	3,766,977	3,766,977	4,262,334	4,262,334
Sample mean	4,244	4,244	4,135	4,135

Appendix B: Regression coefficients from model 2

	2008		2009	
	β (SE)			
Outcome: Mortality				
Age	0.00213 (0.00001)	0.00214 (0.00001)	0.00213 (0.00001)	0.00212 (0.00001)
Female	-0.01431 (0.00014)	-0.01142 (0.00013)	-0.01444 (0.00013)	-0.01149 (0.00013)
White	-0.01958 (0.00042)	-0.01647 (0.00041)	-0.01782 (0.00040)	-0.01490 (0.00039)
Black	-0.01652 (0.00046)	-0.01457 (0.00045)	-0.01523 (0.00044)	-0.01313 (0.00043)
Hispanic	-0.00620 (0.00060)	-0.00413 (0.00059)	-0.00585 (0.00058)	-0.00370 (0.00057)
Revisit	0.01011 (0.00047)	0.00819 (0.00046)	0.01118 (0.00048)	0.00924 (0.00047)
Heart attack	0.03067 (0.00023)	0.03051 (0.00022)	0.03076 (0.00022)	0.03045 (0.00022)
Alzheimer's	0.00548 (0.00019)	0.00438 (0.00019)	0.00456 (0.00019)	0.00352 (0.00018)
Atrial fibrillation	0.01492 (0.00017)	0.01319 (0.00017)	0.01358 (0.00016)	0.01187 (0.00016)
Chronic kidney disease	0.02213 (0.00017)	0.01556 (0.00017)	0.02186 (0.00017)	0.01546 (0.00017)
COPD	0.02329 (0.00016)	0.01987 (0.00016)	0.02341 (0.00016)	0.02016 (0.00016)
Congestive heart failure	0.00113 (0.00014)	0.00074 (0.00014)	0.00081 (0.00014)	0.00030 (0.00014)
Diabetes	0.01006 (0.00051)	0.01089 (0.00051)	0.00828 (0.00050)	0.00893 (0.00050)
Hip fracture	-0.01155 (0.00015)	-0.01122 (0.00014)	-0.01149 (0.00014)	-0.01112 (0.00014)
Ischemic heart disease	0.00001 (0.00017)	0.00200 (0.00017)	-0.00029 (0.00017)	0.00165 (0.00017)
Depression	-0.00526 (0.00022)	-0.00311 (0.00022)	-0.00611 (0.00022)	-0.00406 (0.00021)
Osteoporosis	0.00300 (0.00024)	0.00270 (0.00023)	0.00277 (0.00023)	0.00246 (0.00023)
Stroke	0.01374 (0.00015)	0.01236 (0.00015)	0.01377 (0.00015)	0.01241 (0.00014)
Anemia	-0.01378 (0.00026)	-0.01443 (0.00025)	-0.01361 (0.00025)	-0.01398 (0.00025)
Asthma	0.01283 (0.00021)	0.00888 (0.00021)	0.01286 (0.00021)	0.00915 (0.00020)
Cancer	0.02354 (0.00096)	0.00531 (0.00094)	-0.00276 (0.00055)	-0.00292 (0.00054)
Medicaid	-0.07362 (0.00018)	-0.06916 (0.00018)	-0.07207 (0.00018)	-0.06770 (0.00018)
Median income	-0.00167 (0.00004)	-0.00143 (0.00004)	-0.00173 (0.00004)	-0.00147 (0.00004)
Quarter 2	-0.00424 (0.00018)	-0.00289 (0.00018)	-0.00474 (0.00018)	-0.00283 (0.00017)
Quarter 3	-0.00370 (0.00018)	-0.00144 (0.00018)	-0.00401 (0.00018)	-0.00185 (0.00017)
Quarter 4	0.00525 (0.00018)	0.00546 (0.00018)	0.00397 (0.00018)	0.00446 (0.00017)
Constant	-0.07605 (0.00080)		-0.07683 (0.00078)	
Infectious diseases		-0.17721 (0.00043)		-0.17887 (0.00041)
Neoplasms		-0.19873 (0.00057)		-0.19876 (0.00055)
Endocrine		-0.20160 (0.00045)		-0.20188 (0.00043)
Blood disorders		-0.19508 (0.00039)		-0.19458 (0.00038)
Mental illness		-0.20237 (0.00043)		-0.20171 (0.00041)
Nervous system		0.05104 (0.00065)		0.05123 (0.00064)
Circulatory system		-0.17353 (0.00048)		-0.17223 (0.00047)
Respiratory system		-0.16035 (0.00074)		-0.15928 (0.00072)
Digestive system		-0.18857 (0.00059)		-0.18766 (0.00057)
Genitourinary system		-0.19522 (0.00046)		-0.19501 (0.00044)
Skin conditions		-0.14527 (0.00039)		-0.14647 (0.00037)
Musculoskeletal conditions		-0.14146 (0.00040)		-0.14293 (0.00039)
Injury and poisoning		-0.17827 (0.00042)		-0.17896 (0.00040)
Signs/symptoms		-0.17047 (0.00065)		-0.17064 (0.00062)
Const		0.08446 (0.00087)		0.08518 (0.00084)
N	3,766,977	3,766,977	4,262,334	4,262,334
Sample mean	0.06132	0.06132	0.06024	0.06024

Appendix B: Regression coefficients from model 2

	2008		2009	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00455 (0.00002)	0.00449 (0.00002)	0.00449 (0.00002)	0.00440 (0.00002)
Female	-0.02630 (0.00028)	-0.01425 (0.00026)	-0.02879 (0.00027)	-0.01602 (0.00025)
White	0.00398 (0.00084)	0.01548 (0.00079)	0.00348 (0.00081)	0.01465 (0.00076)
Black	-0.03880 (0.00093)	-0.03154 (0.00087)	-0.04107 (0.00090)	-0.03316 (0.00084)
Hispanic	-0.03549 (0.00122)	-0.02905 (0.00113)	-0.03388 (0.00118)	-0.02744 (0.00110)
Revisit	0.03947 (0.00096)	0.02135 (0.00089)	0.03913 (0.00097)	0.02083 (0.00090)
Heart attack	0.00901 (0.00046)	0.02025 (0.00043)	0.00988 (0.00046)	0.02007 (0.00042)
Alzheimer's	0.01983 (0.00039)	0.00977 (0.00036)	0.01872 (0.00038)	0.00912 (0.00036)
Atrial fibrillation	0.05438 (0.00035)	0.04415 (0.00032)	0.05424 (0.00034)	0.04389 (0.00031)
Chronic kidney disease	0.07094 (0.00034)	0.04869 (0.00032)	0.07067 (0.00034)	0.04803 (0.00032)
COPD	0.07040 (0.00033)	0.05139 (0.00031)	0.06941 (0.00033)	0.05083 (0.00031)
Congestive heart failure	0.02412 (0.00029)	0.02009 (0.00027)	0.02444 (0.00029)	0.02042 (0.00027)
Diabetes	0.01956 (0.00104)	0.02957 (0.00097)	0.01834 (0.00103)	0.02778 (0.00096)
Hip fracture	-0.00688 (0.00030)	-0.01338 (0.00028)	-0.00824 (0.00029)	-0.01418 (0.00027)
Ischemic heart disease	-0.01270 (0.00035)	0.00029 (0.00033)	-0.01451 (0.00034)	-0.00121 (0.00032)
Depression	-0.00889 (0.00045)	0.00260 (0.00041)	-0.00974 (0.00044)	0.00148 (0.00041)
Osteoporosis	0.02045 (0.00048)	0.02154 (0.00044)	0.01748 (0.00048)	0.01843 (0.00044)
Stroke	0.03027 (0.00030)	0.02541 (0.00028)	0.02966 (0.00030)	0.02453 (0.00028)
Anemia	-0.01528 (0.00052)	-0.01766 (0.00048)	-0.01805 (0.00051)	-0.01955 (0.00047)
Asthma	0.00325 (0.00042)	-0.00455 (0.00039)	0.00233 (0.00042)	-0.00486 (0.00039)
Cancer	0.64957 (0.00194)	0.54991 (0.00181)	0.00546 (0.00112)	0.00162 (0.00104)
Medicaid	-0.06692 (0.00037)	-0.05109 (0.00035)	-0.06664 (0.00037)	-0.05042 (0.00034)
Median income	-0.00253 (0.00008)	-0.00158 (0.00007)	-0.00276 (0.00008)	-0.00169 (0.00007)
Quarter 2	-0.01942 (0.00036)	-0.01131 (0.00034)	-0.01962 (0.00036)	-0.00921 (0.00033)
Quarter 3	-0.03016 (0.00036)	-0.01750 (0.00034)	-0.02077 (0.00036)	-0.00884 (0.00033)
Quarter 4	-0.00419 (0.00037)	-0.00045 (0.00034)	-0.00125 (0.00036)	0.00327 (0.00033)
Constant	0.06687 (0.00162)		0.07294 (0.00159)	
Infectious diseases		-0.36662 (0.00083)		-0.39109 (0.00080)
Neoplasms		-0.42453 (0.00109)		-0.44468 (0.00105)
Endocrine		-0.60505 (0.00086)		-0.63842 (0.00084)
Blood disorders		-0.53197 (0.00075)		-0.55922 (0.00073)
Mental illness		-0.60826 (0.00082)		-0.63368 (0.00080)
Nervous system		0.03887 (0.00125)		0.01888 (0.00124)
Circulatory system		-0.31347 (0.00092)		-0.34539 (0.00090)
Respiratory system		-0.16428 (0.00141)		-0.17530 (0.00139)
Digestive system		-0.46406 (0.00114)		-0.49476 (0.00110)
Genitourinary system		-0.54859 (0.00087)		-0.57309 (0.00085)
Skin conditions		-0.18998 (0.00074)		-0.22138 (0.00072)
Musculoskeletal conditions		-0.27358 (0.00077)		-0.29729 (0.00075)
Injury and poisoning		-0.20880 (0.00080)		-0.23241 (0.00078)
Signs/symptoms		-0.61078 (0.00125)		-0.62359 (0.00120)
Const		0.41766 (0.00166)		0.45124 (0.00162)
N	3,766,977	3,766,977	4,262,334	4,262,334
Sample mean	0.44046	0.44046	0.43447	0.43447

Appendix B: Regression coefficients from model 2

	2010		2011	
	β (SE)			
Outcome: Admission				
Age	0.00465 (0.00002)	0.00453 (0.00001)	0.00469 (0.00002)	0.00460 (0.00001)
Female	-0.02606 (0.00027)	-0.01296 (0.00025)	-0.02358 (0.00026)	-0.01073 (0.00024)
White	0.00403 (0.00078)	0.01511 (0.00072)	-0.00240 (0.00075)	0.00918 (0.00069)
Black	-0.03892 (0.00086)	-0.03071 (0.00080)	-0.04567 (0.00083)	-0.03562 (0.00077)
Hispanic	-0.03615 (0.00114)	-0.02941 (0.00106)	-0.03924 (0.00111)	-0.03273 (0.00103)
Revisit	0.03619 (0.00094)	0.02080 (0.00087)	0.03663 (0.00093)	0.02144 (0.00086)
Heart attack	0.01219 (0.00045)	0.02023 (0.00042)	0.01265 (0.00045)	0.02119 (0.00041)
Alzheimer's	0.01914 (0.00037)	0.01056 (0.00034)	0.02022 (0.00036)	0.01213 (0.00034)
Atrial fibrillation	0.05354 (0.00032)	0.04285 (0.00030)	0.05487 (0.00031)	0.04384 (0.00029)
Chronic kidney disease	0.07480 (0.00033)	0.04966 (0.00031)	0.07006 (0.00033)	0.04692 (0.00031)
COPD	0.06982 (0.00033)	0.05166 (0.00030)	0.06881 (0.00032)	0.05173 (0.00030)
Congestive heart failure	0.02403 (0.00028)	0.01970 (0.00026)	0.02570 (0.00027)	0.02140 (0.00025)
Diabetes	0.01860 (0.00102)	0.02603 (0.00095)	0.01621 (0.00102)	0.02433 (0.00094)
Hip fracture	-0.01114 (0.00029)	-0.01450 (0.00027)	-0.00990 (0.00028)	-0.01340 (0.00026)
Ischemic heart disease	-0.01232 (0.00033)	0.00085 (0.00031)	-0.01324 (0.00032)	-0.00020 (0.00029)
Depression	-0.01034 (0.00043)	0.00024 (0.00040)	-0.00637 (0.00042)	0.00239 (0.00038)
Osteoporosis	0.01633 (0.00047)	0.01813 (0.00043)	0.01497 (0.00047)	0.01720 (0.00043)
Stroke	0.03020 (0.00029)	0.02420 (0.00027)	0.03213 (0.00029)	0.02547 (0.00027)
Anemia	-0.01701 (0.00049)	-0.01916 (0.00046)	-0.01710 (0.00047)	-0.01860 (0.00044)
Asthma	0.00346 (0.00041)	-0.00459 (0.00038)	0.00603 (0.00039)	-0.00197 (0.00036)
Cancer	0.01120 (0.00106)	0.00666 (0.00099)	0.01178 (0.00098)	0.00684 (0.00091)
Medicaid	-0.06404 (0.00036)	-0.04787 (0.00033)	-0.06554 (0.00035)	-0.04885 (0.00033)
Median income	-0.00277 (0.00008)	-0.00177 (0.00007)	-0.00294 (0.00008)	-0.00191 (0.00007)
Quarter 2	-0.01657 (0.00035)	-0.00773 (0.00032)	-0.01772 (0.00035)	-0.00966 (0.00032)
Quarter 3	-0.02700 (0.00035)	-0.01379 (0.00033)	-0.02412 (0.00035)	-0.01446 (0.00032)
Quarter 4	-0.01011 (0.00035)	-0.00488 (0.00033)	-0.00932 (0.00035)	-0.00842 (0.00032)
Constant	0.03906 (0.00154)		0.01452 (0.00150)	
Infectious diseases		-0.38909 (0.00076)		-0.40855 (0.00073)
Neoplasms		-0.45162 (0.00101)		-0.46518 (0.00098)
Endocrine		-0.65381 (0.00079)		-0.66966 (0.00077)
Blood disorders		-0.57885 (0.00069)		-0.59146 (0.00066)
Mental illness		-0.66327 (0.00076)		-0.68413 (0.00073)
Nervous system		0.00395 (0.00120)		-0.01038 (0.00119)
Circulatory system		-0.36100 (0.00087)		-0.38807 (0.00085)
Respiratory system		-0.18829 (0.00133)		-0.20477 (0.00131)
Digestive system		-0.52920 (0.00106)		-0.58425 (0.00110)
Genitourinary system		-0.59014 (0.00080)		-0.60771 (0.00078)
Skin conditions		-0.26626 (0.00068)		-0.29297 (0.00066)
Musculoskeletal conditions		-0.30781 (0.00071)		-0.33820 (0.00069)
Injury and poisoning		-0.25077 (0.00074)		-0.27657 (0.00072)
Signs/symptoms		-0.66597 (0.00116)		-0.68022 (0.00113)
Const		0.44147 (0.00156)		0.43727 (0.00152)
N	4,693,653	4,693,653	4,767,125	4,767,125
Sample mean	0.41433	0.41433	0.38987	0.38987

Appendix B: Regression coefficients from model 2

	2010		2011	
	β (SE)			
Outcome: 90-day spending				
Age	177 (0.5)	171 (0.5)	166 (0.5)	160 (0.5)
Female	-533 (8.6)	-341 (8.4)	-458 (8.0)	-269 (7.9)
White	688 (25.1)	810 (24.6)	387 (22.8)	523 (22.3)
Black	660 (27.8)	885 (27.3)	319 (25.4)	561 (24.9)
Hispanic	-882 (36.9)	-726 (36.2)	-957 (34.1)	-804 (33.4)
Revisit	1,182 (30.2)	1,039 (29.7)	1,134 (28.5)	1,003 (27.9)
Heart attack	1,249 (14.4)	1,157 (14.2)	1,105 (13.6)	1,017 (13.4)
Alzheimer's	566 (12.0)	478 (11.8)	581 (11.1)	498 (10.9)
Atrial fibrillation	2,509 (10.4)	2,349 (10.2)	2,361 (9.6)	2,200 (9.4)
Chronic kidney disease	2,396 (10.7)	2,087 (10.6)	2,231 (10.0)	1,958 (9.9)
COPD	2,690 (10.5)	2,466 (10.3)	2,579 (9.9)	2,372 (9.7)
Congestive heart failure	1,315 (9.0)	1,261 (8.8)	1,283 (8.4)	1,229 (8.2)
Diabetes	1,520 (33.1)	1,458 (32.5)	1,129 (31.2)	1,091 (30.6)
Hip fracture	-435 (9.3)	-376 (9.1)	-300 (8.7)	-252 (8.5)
Ischemic heart disease	1,245 (10.6)	1,366 (10.5)	1,045 (9.7)	1,159 (9.5)
Depression	240 (13.8)	343 (13.6)	309 (12.7)	388 (12.5)
Osteoporosis	1,548 (15.1)	1,563 (14.8)	1,289 (14.2)	1,314 (14.0)
Stroke	1,655 (9.3)	1,516 (9.2)	1,599 (8.8)	1,452 (8.6)
Anemia	-295 (15.9)	-247 (15.6)	-229 (14.4)	-176 (14.1)
Asthma	-141 (13.2)	-296 (13.0)	5 (11.8)	-149 (11.6)
Cancer	833 (34.4)	813 (33.7)	739 (30.0)	706 (29.4)
Medicaid	-981 (11.5)	-675 (11.3)	-1,027 (10.8)	-725 (10.6)
Median income	-118 (2.5)	-108 (2.4)	-124 (2.3)	-112 (2.3)
Quarter 2	-180 (11.3)	-95 (11.1)	-114 (10.6)	-54 (10.4)
Quarter 3	-280 (11.3)	-158 (11.1)	37 (10.6)	110 (10.4)
Quarter 4	-174 (11.4)	-151 (11.1)	520 (10.6)	489 (10.4)
Constant	-5,563 (49.7)		-5,412 (45.9)	
Infectious diseases		-11,022 (25.9)		-10,918 (23.7)
Neoplasms		-12,369 (34.5)		-12,181 (31.6)
Endocrine		-13,960 (27.1)		-13,727 (24.8)
Blood disorders		-11,328 (23.5)		-11,216 (21.5)
Mental Illness		-15,395 (25.9)		-14,955 (23.7)
Nervous system		-1,235 (41.1)		-1,037 (38.6)
Circulatory system		-10,993 (29.7)		-10,931 (27.6)
Respiratory system		-7,811 (45.5)		-7,570 (42.4)
Digestive system		-11,884 (36.2)		-12,026 (35.6)
Genitourinary system		-14,446 (27.5)		-14,080 (25.2)
Skin conditions		-9,539 (23.3)		-9,465 (21.3)
Musculoskeletal conditions		-10,055 (24.3)		-10,108 (22.3)
Injury and poisoning		-9,793 (25.3)		-9,754 (23.2)
Signs/symptoms		-13,777 (39.8)		-13,503 (36.7)
Const		5,530 (53.3)		5,535 (49.1)
N	4,693,653	4,693,653	4,767,125	4,767,125
Sample mean	11,149	11,149	10,317	10,317

Appendix B: Regression coefficients from model 2

	2010		2011	
	β (SE)			
Outcome: Encounter spending				
Age	30 (0.2)	28 (0.2)	31 (0.2)	29 (0.2)
Female	-425 (3.4)	-296 (3.2)	-385 (3.3)	-254 (3.1)
White	-118 (10.0)	1 (9.3)	-188 (9.4)	-63 (8.8)
Black	-484 (11.1)	-326 (10.3)	-554 (10.5)	-383 (9.8)
Hispanic	-451 (14.7)	-344 (13.7)	-506 (14.1)	-402 (13.2)
Revisit	457 (12.0)	326 (11.2)	444 (11.8)	323 (11.0)
Heart attack	140 (5.7)	151 (5.4)	164 (5.6)	172 (5.3)
Alzheimer's	135 (4.8)	56 (4.5)	128 (4.6)	55 (4.3)
Atrial fibrillation	724 (4.1)	632 (3.9)	702 (4.0)	608 (3.7)
Chronic kidney disease	764 (4.3)	507 (4.0)	717 (4.1)	484 (3.9)
COPD	776 (4.2)	602 (3.9)	762 (4.1)	602 (3.8)
Congestive heart failure	286 (3.6)	273 (3.3)	298 (3.5)	283 (3.2)
Diabetes	328 (13.2)	330 (12.3)	294 (12.9)	307 (12.0)
Hip fracture	-198 (3.7)	-188 (3.4)	-168 (3.6)	-162 (3.4)
Ischemic heart disease	-190 (4.2)	-69 (4.0)	-170 (4.0)	-60 (3.8)
Depression	-129 (5.5)	-43 (5.1)	-84 (5.3)	-17 (4.9)
Osteoporosis	166 (6.0)	168 (5.6)	144 (5.9)	154 (5.5)
Stroke	464 (3.7)	379 (3.5)	471 (3.6)	381 (3.4)
Anemia	-309 (6.3)	-298 (5.9)	-287 (6.0)	-270 (5.6)
Asthma	17 (5.2)	-103 (4.9)	36 (4.9)	-78 (4.6)
Cancer	-222 (13.7)	-225 (12.8)	-182 (12.4)	-196 (11.6)
Medicaid	-965 (4.6)	-730 (4.3)	-937 (4.5)	-707 (4.2)
Median income	-36 (1.0)	-27 (0.9)	-41 (1.0)	-31 (0.9)
Quarter 2	-157 (4.5)	-77 (4.2)	-146 (4.4)	-83 (4.1)
Quarter 3	-224 (4.5)	-107 (4.2)	-184 (4.4)	-106 (4.1)
Quarter 4	7 (4.5)	39 (4.2)	60 (4.4)	48 (4.1)
Constant	1,829 (19.7)		1,557 (19.0)	
Infectious diseases		-8,834 (9.8)		-8,757 (9.3)
Neoplasms		-9,354 (13.1)		-9,239 (12.5)
Endocrine		-10,332 (10.3)		-10,195 (9.8)
Blood disorders		-8,949 (8.9)		-8,848 (8.5)
Mental Illness		-10,694 (9.8)		-10,528 (9.3)
Nervous system		-696 (15.6)		-707 (15.2)
Circulatory system		-8,905 (11.2)		-8,840 (10.9)
Respiratory system		-7,206 (17.2)		-7,129 (16.7)
Digestive system		-9,862 (13.7)		-9,908 (14.0)
Genitourinary system		-10,040 (10.4)		-9,903 (9.9)
Skin conditions		-6,820 (8.8)		-6,841 (8.4)
Musculoskeletal conditions		-7,316 (9.2)		-7,385 (8.8)
Injury and poisoning		-6,880 (9.6)		-6,932 (9.1)
Signs/symptoms		-10,767 (15.1)		-10,582 (14.5)
Const		9,849 (20.2)		9,511 (19.3)
N	4,693,653	4,693,653	4,767,125	4,767,125
Sample mean	4,079	4,079	3,864	3,864

Appendix B: Regression coefficients from model 2

	2010		2011	
	β (SE)			
Outcome: Mortality				
Age	0.00211 (0.00001)	0.00210 (0.00001)	0.00208 (0.00001)	0.00208 (0.00001)
Female	-0.01390 (0.00013)	-0.01104 (0.00013)	-0.01377 (0.00013)	-0.01094 (0.00013)
White	-0.01708 (0.00038)	-0.01424 (0.00037)	-0.01646 (0.00036)	-0.01355 (0.00036)
Black	-0.01419 (0.00042)	-0.01205 (0.00041)	-0.01378 (0.00041)	-0.01136 (0.00040)
Hispanic	-0.00443 (0.00056)	-0.00223 (0.00055)	-0.00393 (0.00054)	-0.00184 (0.00053)
Revisit	0.01275 (0.00046)	0.01075 (0.00045)	0.01052 (0.00045)	0.00872 (0.00045)
Heart attack	0.03059 (0.00022)	0.03010 (0.00022)	0.03123 (0.00022)	0.03080 (0.00021)
Alzheimer's	0.00448 (0.00018)	0.00342 (0.00018)	0.00404 (0.00018)	0.00308 (0.00017)
Atrial fibrillation	0.01260 (0.00016)	0.01093 (0.00016)	0.01214 (0.00015)	0.01047 (0.00015)
Chronic kidney disease	0.02165 (0.00016)	0.01531 (0.00016)	0.02138 (0.00016)	0.01562 (0.00016)
COPD	0.02285 (0.00016)	0.01959 (0.00016)	0.02240 (0.00016)	0.01942 (0.00016)
Congestive heart failure	0.00067 (0.00014)	0.00017 (0.00013)	0.00076 (0.00013)	0.00022 (0.00013)
Diabetes	0.01100 (0.00050)	0.01139 (0.00049)	0.00923 (0.00050)	0.00985 (0.00049)
Hip fracture	-0.01080 (0.00014)	-0.01026 (0.00014)	-0.00980 (0.00014)	-0.00940 (0.00014)
Ischemic heart disease	-0.00013 (0.00016)	0.00187 (0.00016)	-0.00039 (0.00016)	0.00148 (0.00015)
Depression	-0.00534 (0.00021)	-0.00339 (0.00021)	-0.00384 (0.00020)	-0.00224 (0.00020)
Osteoporosis	0.00247 (0.00023)	0.00234 (0.00023)	0.00165 (0.00023)	0.00175 (0.00022)
Stroke	0.01316 (0.00014)	0.01180 (0.00014)	0.01288 (0.00014)	0.01143 (0.00014)
Anemia	-0.01359 (0.00024)	-0.01374 (0.00024)	-0.01239 (0.00023)	-0.01240 (0.00023)
Asthma	0.01209 (0.00020)	0.00860 (0.00020)	0.01113 (0.00019)	0.00785 (0.00019)
Cancer	-0.00283 (0.00052)	-0.00288 (0.00051)	-0.00126 (0.00048)	-0.00145 (0.00047)
Medicaid	-0.07133 (0.00017)	-0.06678 (0.00017)	-0.06823 (0.00017)	-0.06378 (0.00017)
Median income	-0.00160 (0.00004)	-0.00137 (0.00004)	-0.00159 (0.00004)	-0.00134 (0.00004)
Quarter 2	-0.00532 (0.00017)	-0.00364 (0.00017)	-0.00282 (0.00017)	-0.00145 (0.00017)
Quarter 3	-0.00518 (0.00017)	-0.00265 (0.00017)	-0.00160 (0.00017)	0.00009 (0.00017)
Quarter 4	0.00148 (0.00017)	0.00233 (0.00017)	0.00597 (0.00017)	0.00574 (0.00017)
Constant	-0.07718 (0.00075)		-0.08073 (0.00073)	
Infectious diseases		-0.17716 (0.00039)		-0.17201 (0.00038)
Neoplasms		-0.19734 (0.00052)		-0.19090 (0.00051)
Endocrine		-0.19969 (0.00041)		-0.19298 (0.00040)
Blood disorders		-0.19236 (0.00036)		-0.18523 (0.00034)
Mental illness		-0.20009 (0.00039)		-0.19291 (0.00038)
Nervous system		0.05097 (0.00062)		0.05560 (0.00062)
Circulatory system		-0.17243 (0.00045)		-0.16562 (0.00044)
Respiratory system		-0.15714 (0.00069)		-0.14772 (0.00068)
Digestive system		-0.18648 (0.00055)		-0.18091 (0.00057)
Genitourinary system		-0.19269 (0.00042)		-0.18616 (0.00040)
Skin conditions		-0.14494 (0.00035)		-0.14022 (0.00034)
Musculoskeletal conditions		-0.14373 (0.00037)		-0.14026 (0.00036)
Injury and poisoning		-0.17725 (0.00038)		-0.17230 (0.00037)
Signs/symptoms		-0.17128 (0.00060)		-0.16456 (0.00059)
Const		0.08351 (0.00081)		0.07426 (0.00078)
N	4,693,653	4,693,653	4,767,125	4,767,125
Sample mean	0.05923	0.05923	0.05736	0.05736

Appendix B: Regression coefficients from model 2

	2010		2011	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00448 (0.00002)	0.00435 (0.00002)	0.00452 (0.00002)	0.00442 (0.00001)
Female	-0.02983 (0.00027)	-0.01689 (0.00025)	-0.02749 (0.00027)	-0.01484 (0.00025)
White	0.00229 (0.00078)	0.01333 (0.00073)	-0.00404 (0.00075)	0.00755 (0.00070)
Black	-0.04333 (0.00087)	-0.03487 (0.00081)	-0.05015 (0.00084)	-0.03981 (0.00078)
Hispanic	-0.03738 (0.00115)	-0.03046 (0.00107)	-0.04045 (0.00113)	-0.03365 (0.00104)
Revisit	0.03956 (0.00094)	0.02257 (0.00087)	0.04082 (0.00094)	0.02389 (0.00087)
Heart attack	0.01015 (0.00045)	0.01899 (0.00042)	0.01054 (0.00045)	0.01984 (0.00042)
Alzheimer's	0.01971 (0.00037)	0.01010 (0.00035)	0.02066 (0.00037)	0.01154 (0.00034)
Atrial fibrillation	0.05533 (0.00033)	0.04474 (0.00030)	0.05662 (0.00032)	0.04569 (0.00029)
Chronic kidney disease	0.07259 (0.00033)	0.04852 (0.00031)	0.06801 (0.00033)	0.04592 (0.00031)
COPD	0.07043 (0.00033)	0.05167 (0.00030)	0.06954 (0.00033)	0.05186 (0.00030)
Congestive heart failure	0.02431 (0.00028)	0.02026 (0.00026)	0.02590 (0.00028)	0.02186 (0.00026)
Diabetes	0.01805 (0.00103)	0.02581 (0.00096)	0.01642 (0.00103)	0.02485 (0.00096)
Hip fracture	-0.00978 (0.00029)	-0.01413 (0.00027)	-0.00852 (0.00029)	-0.01305 (0.00027)
Ischemic heart disease	-0.01381 (0.00033)	-0.00021 (0.00031)	-0.01455 (0.00032)	-0.00108 (0.00030)
Depression	-0.01047 (0.00043)	0.00045 (0.00040)	-0.00665 (0.00042)	0.00246 (0.00039)
Osteoporosis	0.01651 (0.00047)	0.01808 (0.00044)	0.01522 (0.00047)	0.01715 (0.00044)
Stroke	0.03084 (0.00029)	0.02524 (0.00027)	0.03276 (0.00029)	0.02650 (0.00027)
Anemia	-0.01888 (0.00049)	-0.02046 (0.00046)	-0.01860 (0.00048)	-0.01956 (0.00044)
Asthma	0.00291 (0.00041)	-0.00469 (0.00038)	0.00545 (0.00039)	-0.00213 (0.00036)
Cancer	0.00878 (0.00107)	0.00432 (0.00099)	0.00943 (0.00099)	0.00459 (0.00092)
Medicaid	-0.06841 (0.00036)	-0.05164 (0.00033)	-0.07001 (0.00036)	-0.05269 (0.00033)
Median income	-0.00263 (0.00008)	-0.00164 (0.00007)	-0.00277 (0.00008)	-0.00176 (0.00007)
Quarter 2	-0.01656 (0.00035)	-0.00767 (0.00033)	-0.01790 (0.00035)	-0.00977 (0.00032)
Quarter 3	-0.02694 (0.00035)	-0.01371 (0.00033)	-0.02401 (0.00035)	-0.01430 (0.00032)
Quarter 4	-0.00950 (0.00035)	-0.00428 (0.00033)	-0.00868 (0.00035)	-0.00763 (0.00032)
Constant	0.07111 (0.00155)		0.04636 (0.00152)	
Infectious diseases		-0.38905 (0.00076)		-0.40851 (0.00074)
Neoplasms		-0.45357 (0.00102)		-0.46717 (0.00099)
Endocrine		-0.65527 (0.00080)		-0.67124 (0.00078)
Blood disorders		-0.56946 (0.00069)		-0.58199 (0.00067)
Mental illness		-0.65793 (0.00076)		-0.67913 (0.00074)
Nervous system		0.00935 (0.00121)		-0.00435 (0.00120)
Circulatory system		-0.36150 (0.00087)		-0.38840 (0.00086)
Respiratory system		-0.18256 (0.00134)		-0.19854 (0.00133)
Digestive system		-0.52005 (0.00107)		-0.57357 (0.00111)
Genitourinary system		-0.58665 (0.00081)		-0.60378 (0.00079)
Skin conditions		-0.24198 (0.00069)		-0.26814 (0.00067)
Musculoskeletal conditions		-0.30632 (0.00072)		-0.33669 (0.00070)
Injury and poisoning		-0.24566 (0.00074)		-0.27077 (0.00073)
Signs/symptoms		-0.64908 (0.00117)		-0.66211 (0.00115)
Const		0.46634 (0.00157)		0.46163 (0.00153)
N	4,693,653	4,693,653	4,767,125	4,767,125
Sample mean	0.42919	0.42919	0.40519	0.40519

Appendix B: Regression coefficients from model 2

	2012		2013	
	β (SE)			
Outcome: Admission				
Age	0.00450 (0.00002)	0.00440 (0.00001)	0.00437 (0.00002)	0.00431 (0.00001)
Female	-0.02402 (0.00026)	-0.01092 (0.00024)	-0.02283 (0.00026)	-0.01033 (0.00024)
White	-0.00091 (0.00072)	0.00999 (0.00067)	-0.00030 (0.00069)	0.01037 (0.00064)
Black	-0.04615 (0.00081)	-0.03529 (0.00075)	-0.04510 (0.00078)	-0.03338 (0.00072)
Hispanic	-0.03539 (0.00110)	-0.02981 (0.00102)	-0.03739 (0.00108)	-0.03122 (0.00100)
Revisit	0.03561 (0.00093)	0.02155 (0.00086)	0.02860 (0.00094)	0.01630 (0.00087)
Heart attack	0.01335 (0.00045)	0.02100 (0.00042)	0.01391 (0.00046)	0.02075 (0.00043)
Alzheimer's	0.01956 (0.00036)	0.01197 (0.00033)	0.01796 (0.00035)	0.01041 (0.00033)
Atrial fibrillation	0.05442 (0.00031)	0.04392 (0.00029)	0.05342 (0.00030)	0.04296 (0.00028)
Chronic kidney disease	0.07186 (0.00033)	0.04684 (0.00031)	0.06895 (0.00032)	0.04610 (0.00030)
COPD	0.06964 (0.00032)	0.05201 (0.00030)	0.07031 (0.00032)	0.05313 (0.00030)
Congestive heart failure	0.02583 (0.00027)	0.02116 (0.00025)	0.02635 (0.00027)	0.02139 (0.00025)
Diabetes	0.01855 (0.00104)	0.02632 (0.00096)	0.01603 (0.00103)	0.02442 (0.00095)
Hip fracture	-0.01261 (0.00028)	-0.01501 (0.00026)	-0.01389 (0.00028)	-0.01560 (0.00026)
Ischemic heart disease	-0.01579 (0.00031)	-0.00241 (0.00029)	-0.01464 (0.00031)	-0.00162 (0.00028)
Depression	-0.00599 (0.00042)	0.00221 (0.00039)	-0.00597 (0.00043)	0.00186 (0.00039)
Osteoporosis	0.01314 (0.00047)	0.01580 (0.00043)	0.01105 (0.00046)	0.01452 (0.00043)
Stroke	0.03166 (0.00029)	0.02483 (0.00027)	0.03373 (0.00028)	0.02623 (0.00026)
Anemia	-0.01848 (0.00047)	-0.01970 (0.00043)	-0.01929 (0.00046)	-0.01962 (0.00042)
Asthma	0.00533 (0.00039)	-0.00211 (0.00036)	0.00639 (0.00038)	-0.00171 (0.00035)
Cancer	0.01003 (0.00102)	0.00600 (0.00095)	0.00633 (0.00101)	0.00442 (0.00093)
Medicaid	-0.06774 (0.00035)	-0.05078 (0.00033)	-0.06512 (0.00035)	-0.04823 (0.00032)
Median income	-0.00292 (0.00007)	-0.00187 (0.00007)	-0.00309 (0.00007)	-0.00207 (0.00007)
Quarter 2	-0.01808 (0.00034)	-0.00744 (0.00032)	-0.01454 (0.00034)	-0.00794 (0.00032)
Quarter 3	-0.02837 (0.00034)	-0.01400 (0.00032)	-0.02147 (0.00034)	-0.01198 (0.00032)
Quarter 4	-0.01658 (0.00035)	-0.00985 (0.00032)	-0.00362 (0.00034)	-0.00348 (0.00032)
Constant	0.02287 (0.00147)		0.01500 (0.00143)	
Infectious diseases		-0.43307 (0.00071)		-0.45584 (0.00068)
Neoplasms		-0.48495 (0.00096)		-0.49628 (0.00093)
Endocrine		-0.68738 (0.00074)		-0.69591 (0.00071)
Blood disorders		-0.60358 (0.00064)		-0.61331 (0.00061)
Mental illness		-0.71385 (0.00071)		-0.73117 (0.00068)
Nervous system		-0.03178 (0.00118)		-0.04937 (0.00116)
Circulatory system		-0.41375 (0.00083)		-0.42712 (0.00081)
Respiratory system		-0.23903 (0.00129)		-0.27954 (0.00126)
Digestive system		-0.61344 (0.00108)		-0.62623 (0.00104)
Genitourinary system		-0.62924 (0.00076)		-0.64137 (0.00073)
Skin conditions		-0.32076 (0.00063)		-0.34680 (0.00060)
Musculoskeletal conditions		-0.35689 (0.00066)		-0.38986 (0.00064)
Injury and poisoning		-0.30130 (0.00069)		-0.32309 (0.00067)
Signs/symptoms		-0.70703 (0.00111)		-0.72679 (0.00109)
Const		0.46383 (0.00148)		0.47555 (0.00143)
N	4,675,312	4,675,312	4,893,431	4,893,431
Sample mean	0.37878	0.37878	0.36588	0.36588

Appendix B: Regression coefficients from model 2

	2012		2013	
	β (SE)			
Ou				
Age	156 (0.5)	150 (0.5)	152 (0.5)	146 (0.5)
Female	-425 (8.0)	-235 (7.8)	-422 (7.8)	-239 (7.6)
White	461 (21.9)	586 (21.4)	502 (20.8)	627 (20.4)
Black	300 (24.6)	551 (24.1)	303 (23.6)	568 (23.1)
Hispanic	-936 (33.5)	-809 (32.8)	-1,066 (32.6)	-920 (31.9)
Revisit	1,186 (28.4)	1,048 (27.8)	1,169 (28.3)	1,051 (27.7)
Heart attack	1,069 (13.8)	971 (13.5)	994 (13.9)	888 (13.6)
Alzheimer's	584 (11.0)	501 (10.7)	557 (10.7)	471 (10.5)
Atrial fibrillation	2,264 (9.5)	2,109 (9.3)	2,209 (9.2)	2,054 (9.0)
Chronic kidney disease	2,179 (9.9)	1,894 (9.8)	2,118 (9.8)	1,873 (9.7)
COPD	2,570 (9.9)	2,348 (9.7)	2,583 (9.8)	2,364 (9.6)
Congestive heart failure	1,295 (8.3)	1,233 (8.1)	1,282 (8.1)	1,206 (8.0)
Diabetes	1,185 (31.5)	1,143 (30.9)	1,278 (31.1)	1,255 (30.4)
Hip fracture	-278 (8.6)	-224 (8.5)	-196 (8.5)	-142 (8.3)
Ischemic heart disease	975 (9.6)	1,100 (9.4)	954 (9.3)	1,077 (9.1)
Depression	387 (12.9)	459 (12.6)	340 (12.9)	408 (12.6)
Osteoporosis	1,244 (14.2)	1,268 (13.9)	1,255 (14.1)	1,295 (13.8)
Stroke	1,603 (8.7)	1,456 (8.5)	1,624 (8.6)	1,470 (8.4)
Anemia	-231 (14.2)	-169 (13.9)	-208 (13.8)	-131 (13.5)
Asthma	15 (11.8)	-116 (11.5)	31 (11.6)	-107 (11.3)
Cancer	717 (31.2)	698 (30.5)	654 (30.4)	661 (29.8)
Medicaid	-1,121 (10.8)	-808 (10.6)	-1,010 (10.6)	-708 (10.4)
Median income	-120 (2.3)	-109 (2.2)	-122 (2.2)	-112 (2.2)
Quarter 2	-293 (10.4)	-193 (10.2)	-213 (10.3)	-150 (10.1)
Quarter 3	-179 (10.5)	-56 (10.3)	-73 (10.4)	1 (10.2)
Quarter 4	335 (10.5)	360 (10.3)	393 (10.3)	365 (10.1)
Constant	-4,643 (44.8)		-4,406 (43.4)	
Infectious diseases		-11,074 (22.8)		-10,746 (21.8)
Neoplasms		-12,242 (31.0)		-11,767 (29.9)
Endocrine		-13,742 (23.9)		-13,323 (22.8)
Blood disorders		-11,172 (20.5)		-10,747 (19.5)
Mental Illness		-14,999 (22.9)		-14,516 (21.9)
Nervous system		-1,316 (38.1)		-1,289 (37.3)
Circulatory system		-10,885 (26.9)		-10,173 (26.0)
Respiratory system		-7,767 (41.6)		-7,325 (40.5)
Digestive system		-12,206 (34.8)		-11,700 (33.4)
Genitourinary system		-14,091 (24.3)		-13,683 (23.3)
Skin conditions		-9,453 (20.4)		-9,108 (19.4)
Musculoskeletal conditions		-10,222 (21.3)		-10,141 (20.4)
Injury and poisoning		-9,877 (22.3)		-9,647 (21.3)
Signs/symptoms		-13,602 (35.9)		-13,229 (34.8)
Const		6,293 (47.7)		6,191 (45.9)
N	4,675,312	4,675,312	4,893,431	4,893,431
Sample mean	10,236	10,236	10,174	10,174

Appendix B: Regression coefficients from model 2

	2012		2013	
	β (SE)			
Outcome: Encounter spending				
Age	29 (0.2)	27 (0.2)	28 (0.2)	26 (0.2)
Female	-377 (3.3)	-244 (3.1)	-361 (3.2)	-234 (2.9)
White	-152 (9.1)	-34 (8.5)	-127 (8.5)	-12 (7.9)
Black	-545 (10.3)	-368 (9.6)	-531 (9.6)	-347 (8.9)
Hispanic	-457 (14.0)	-370 (13.0)	-478 (13.3)	-382 (12.3)
Revisit	443 (11.9)	318 (11.0)	391 (11.5)	279 (10.7)
Heart attack	162 (5.8)	162 (5.4)	154 (5.7)	154 (5.3)
Alzheimer's	133 (4.6)	60 (4.3)	116 (4.4)	40 (4.1)
Atrial fibrillation	672 (3.9)	581 (3.7)	633 (3.7)	543 (3.5)
Chronic kidney disease	735 (4.1)	490 (3.9)	685 (4.0)	468 (3.7)
COPD	766 (4.1)	594 (3.8)	757 (4.0)	587 (3.7)
Congestive heart failure	301 (3.5)	280 (3.2)	299 (3.3)	269 (3.1)
Diabetes	329 (13.2)	339 (12.2)	274 (12.7)	300 (11.8)
Hip fracture	-154 (3.6)	-143 (3.4)	-136 (3.5)	-126 (3.2)
Ischemic heart disease	-194 (4.0)	-76 (3.7)	-191 (3.8)	-74 (3.5)
Depression	-66 (5.4)	-3 (5.0)	-69 (5.3)	-8 (4.9)
Osteoporosis	134 (5.9)	144 (5.5)	110 (5.7)	131 (5.3)
Stroke	470 (3.6)	379 (3.4)	471 (3.5)	378 (3.2)
Anemia	-297 (5.9)	-275 (5.5)	-285 (5.6)	-254 (5.2)
Asthma	28 (4.9)	-70 (4.6)	30 (4.7)	-72 (4.4)
Cancer	-199 (13.0)	-204 (12.1)	-229 (12.4)	-216 (11.5)
Medicaid	-962 (4.5)	-726 (4.2)	-899 (4.3)	-672 (4.0)
Median income	-38 (1.0)	-29 (0.9)	-38 (0.9)	-29 (0.8)
Quarter 2	-194 (4.4)	-102 (4.1)	-155 (4.2)	-95 (3.9)
Quarter 3	-249 (4.4)	-130 (4.1)	-206 (4.2)	-127 (3.9)
Quarter 4	21 (4.4)	59 (4.1)	-37 (4.2)	-49 (3.9)
Constant	1,701 (18.7)		1,707 (17.7)	
Infectious diseases		-8,813 (9.1)		-8,495 (8.4)
Neoplasms		-9,267 (12.3)		-8,861 (11.5)
Endocrine		-10,194 (9.5)		-9,807 (8.8)
Blood disorders		-8,802 (8.1)		-8,434 (7.5)
Mental Illness		-10,535 (9.1)		-10,142 (8.5)
Nervous system		-858 (15.1)		-884 (14.4)
Circulatory system		-8,791 (10.7)		-8,269 (10.1)
Respiratory system		-7,190 (16.5)		-6,860 (15.6)
Digestive system		-9,945 (13.8)		-9,540 (12.9)
Genitourinary system		-9,904 (9.7)		-9,522 (9.0)
Skin conditions		-6,804 (8.1)		-6,480 (7.5)
Musculoskeletal conditions		-7,425 (8.5)		-7,279 (7.9)
Injury and poisoning		-6,983 (8.9)		-6,758 (8.2)
Signs/symptoms		-10,598 (14.2)		-10,226 (13.4)
Const		9,623 (18.9)		9,325 (17.7)
N	4,675,312	4,675,312	4,893,431	4,893,431
Sample mean	3,877	3,877	3,812	3,812

Appendix B: Regression coefficients from model 2

	2012		2013	
	β (SE)			
Outcome: Mortality				
Age	0.00205 (0.00001)	0.00205 (0.00001)	0.00203 (0.00001)	0.00203 (0.00001)
Female	-0.01360 (0.00013)	-0.01075 (0.00013)	-0.01352 (0.00013)	-0.01079 (0.00012)
White	-0.01603 (0.00035)	-0.01334 (0.00035)	-0.01530 (0.00034)	-0.01266 (0.00033)
Black	-0.01372 (0.00040)	-0.01135 (0.00039)	-0.01375 (0.00038)	-0.01114 (0.00037)
Hispanic	-0.00288 (0.00054)	-0.00125 (0.00053)	-0.00232 (0.00053)	-0.00049 (0.00052)
Revisit	0.00911 (0.00046)	0.00713 (0.00045)	0.00789 (0.00046)	0.00616 (0.00045)
Heart attack	0.03105 (0.00022)	0.03057 (0.00022)	0.03062 (0.00023)	0.03014 (0.00022)
Alzheimer's	0.00433 (0.00018)	0.00337 (0.00017)	0.00376 (0.00017)	0.00276 (0.00017)
Atrial fibrillation	0.01216 (0.00015)	0.01056 (0.00015)	0.01154 (0.00015)	0.00996 (0.00015)
Chronic kidney disease	0.02119 (0.00016)	0.01532 (0.00016)	0.01983 (0.00016)	0.01440 (0.00016)
COPD	0.02342 (0.00016)	0.02023 (0.00016)	0.02270 (0.00016)	0.01956 (0.00016)
Congestive heart failure	0.00071 (0.00013)	0.00007 (0.00013)	0.00087 (0.00013)	0.00015 (0.00013)
Diabetes	0.00983 (0.00051)	0.01048 (0.00050)	0.00800 (0.00050)	0.00895 (0.00050)
Hip fracture	-0.00941 (0.00014)	-0.00898 (0.00014)	-0.00862 (0.00014)	-0.00819 (0.00013)
Ischemic heart disease	-0.00057 (0.00015)	0.00147 (0.00015)	-0.00072 (0.00015)	0.00132 (0.00015)
Depression	-0.00330 (0.00021)	-0.00175 (0.00021)	-0.00366 (0.00021)	-0.00215 (0.00021)
Osteoporosis	0.00150 (0.00023)	0.00157 (0.00023)	0.00141 (0.00023)	0.00164 (0.00022)
Stroke	0.01310 (0.00014)	0.01163 (0.00014)	0.01342 (0.00014)	0.01189 (0.00014)
Anemia	-0.01306 (0.00023)	-0.01291 (0.00023)	-0.01273 (0.00022)	-0.01246 (0.00022)
Asthma	0.01085 (0.00019)	0.00789 (0.00019)	0.01139 (0.00019)	0.00827 (0.00018)
Cancer	-0.00133 (0.00050)	-0.00138 (0.00049)	-0.00199 (0.00049)	-0.00177 (0.00048)
Medicaid	-0.06956 (0.00017)	-0.06502 (0.00017)	-0.06650 (0.00017)	-0.06211 (0.00017)
Median income	-0.00168 (0.00004)	-0.00143 (0.00004)	-0.00165 (0.00004)	-0.00142 (0.00004)
Quarter 2	-0.00636 (0.00017)	-0.00430 (0.00017)	-0.00439 (0.00017)	-0.00309 (0.00016)
Quarter 3	-0.00601 (0.00017)	-0.00337 (0.00017)	-0.00421 (0.00017)	-0.00245 (0.00017)
Quarter 4	0.00156 (0.00017)	0.00260 (0.00017)	0.00326 (0.00017)	0.00305 (0.00016)
Constant	-0.07515 (0.00073)		-0.07660 (0.00070)	
Infectious diseases		-0.17042 (0.00037)		-0.16547 (0.00035)
Neoplasms		-0.18832 (0.00050)		-0.18249 (0.00049)
Endocrine		-0.19069 (0.00039)		-0.18437 (0.00037)
Blood disorders		-0.18245 (0.00033)		-0.17617 (0.00032)
Mental illness		-0.19021 (0.00037)		-0.18388 (0.00036)
Nervous system		0.05739 (0.00062)		0.06090 (0.00061)
Circulatory system		-0.16285 (0.00044)		-0.15644 (0.00042)
Respiratory system		-0.14441 (0.00068)		-0.13986 (0.00066)
Digestive system		-0.17777 (0.00057)		-0.17085 (0.00054)
Genitourinary system		-0.18341 (0.00040)		-0.17722 (0.00038)
Skin conditions		-0.13655 (0.00033)		-0.13133 (0.00031)
Musculoskeletal conditions		-0.13901 (0.00035)		-0.13634 (0.00033)
Injury and poisoning		-0.16981 (0.00036)		-0.16447 (0.00035)
Signs/symptoms		-0.16323 (0.00058)		-0.15794 (0.00057)
Const		0.07673 (0.00077)		0.07018 (0.00075)
N	4,675,312	4,675,312	4,893,431	4,893,431
Sample mean	0.05789	0.05789	0.05654	0.05654

Appendix B: Regression coefficients from model 2

	2012		2013	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00433 (0.00002)	0.00422 (0.00001)	0.00421 (0.00002)	0.00414 (0.00001)
Female	-0.02802 (0.00026)	-0.01508 (0.00025)	-0.02680 (0.00026)	-0.01444 (0.00024)
White	-0.00283 (0.00073)	0.00810 (0.00067)	-0.00218 (0.00070)	0.00857 (0.00065)
Black	-0.05075 (0.00082)	-0.03955 (0.00076)	-0.04961 (0.00079)	-0.03751 (0.00073)
Hispanic	-0.03663 (0.00112)	-0.03077 (0.00103)	-0.03871 (0.00109)	-0.03221 (0.00101)
Revisit	0.03952 (0.00095)	0.02367 (0.00087)	0.03270 (0.00095)	0.01866 (0.00088)
Heart attack	0.01136 (0.00046)	0.01977 (0.00043)	0.01191 (0.00047)	0.01947 (0.00043)
Alzheimer's	0.02006 (0.00036)	0.01141 (0.00034)	0.01839 (0.00036)	0.00978 (0.00033)
Atrial fibrillation	0.05621 (0.00031)	0.04582 (0.00029)	0.05506 (0.00031)	0.04471 (0.00029)
Chronic kidney disease	0.06957 (0.00033)	0.04562 (0.00031)	0.06693 (0.00033)	0.04509 (0.00031)
COPD	0.07028 (0.00033)	0.05202 (0.00030)	0.07117 (0.00033)	0.05332 (0.00030)
Congestive heart failure	0.02616 (0.00028)	0.02174 (0.00026)	0.02670 (0.00027)	0.02199 (0.00025)
Diabetes	0.01896 (0.00105)	0.02703 (0.00097)	0.01618 (0.00104)	0.02494 (0.00096)
Hip fracture	-0.01132 (0.00029)	-0.01472 (0.00027)	-0.01246 (0.00028)	-0.01517 (0.00026)
Ischemic heart disease	-0.01715 (0.00032)	-0.00335 (0.00029)	-0.01602 (0.00031)	-0.00257 (0.00029)
Depression	-0.00608 (0.00043)	0.00248 (0.00040)	-0.00608 (0.00043)	0.00213 (0.00040)
Osteoporosis	0.01356 (0.00047)	0.01589 (0.00044)	0.01177 (0.00047)	0.01492 (0.00044)
Stroke	0.03255 (0.00029)	0.02610 (0.00027)	0.03466 (0.00029)	0.02752 (0.00027)
Anemia	-0.01993 (0.00047)	-0.02058 (0.00044)	-0.02121 (0.00046)	-0.02100 (0.00043)
Asthma	0.00495 (0.00039)	-0.00209 (0.00036)	0.00607 (0.00039)	-0.00165 (0.00036)
Cancer	0.00812 (0.00104)	0.00419 (0.00096)	0.00405 (0.00102)	0.00224 (0.00094)
Medicaid	-0.07238 (0.00036)	-0.05476 (0.00033)	-0.06988 (0.00035)	-0.05232 (0.00033)
Median income	-0.00275 (0.00008)	-0.00172 (0.00007)	-0.00290 (0.00007)	-0.00189 (0.00007)
Quarter 2	-0.01808 (0.00035)	-0.00754 (0.00032)	-0.01473 (0.00035)	-0.00803 (0.00032)
Quarter 3	-0.02823 (0.00035)	-0.01397 (0.00032)	-0.02142 (0.00035)	-0.01187 (0.00032)
Quarter 4	-0.01539 (0.00035)	-0.00877 (0.00032)	-0.00298 (0.00035)	-0.00266 (0.00032)
Constant	0.05533 (0.00149)		0.04718 (0.00145)	
Infectious diseases		-0.43303 (0.00072)		-0.45598 (0.00069)
Neoplasms		-0.48729 (0.00097)		-0.49853 (0.00095)
Endocrine		-0.68918 (0.00075)		-0.69846 (0.00072)
Blood disorders		-0.59377 (0.00065)		-0.60379 (0.00062)
Mental Illness		-0.70917 (0.00072)		-0.72708 (0.00069)
Nervous system		-0.02464 (0.00120)		-0.04214 (0.00118)
Circulatory system		-0.41411 (0.00084)		-0.42768 (0.00082)
Respiratory system		-0.23203 (0.00131)		-0.27197 (0.00128)
Digestive system		-0.60275 (0.00109)		-0.61523 (0.00106)
Genitourinary system		-0.62541 (0.00077)		-0.63774 (0.00074)
Skin conditions		-0.29556 (0.00064)		-0.32151 (0.00061)
Musculoskeletal conditions		-0.35547 (0.00067)		-0.38853 (0.00065)
Injury and poisoning		-0.29478 (0.00070)		-0.31572 (0.00068)
Signs/symptoms		-0.68878 (0.00113)		-0.70759 (0.00110)
Const		0.48888 (0.00150)		0.50043 (0.00145)
N	4,675,312	4,675,312	4,893,431	4,893,431
Sample mean	0.39476	0.39476	0.38253	0.38253

Appendix B: Regression coefficients from model 2

	2014		2015	
	β (SE)			
Outcome: Admission				
Age	0.00410 (0.00001)	0.00398 (0.00001)	0.00382 (0.00001)	0.00374 (0.00001)
Female	-0.02848 (0.00025)	-0.01604 (0.00023)	-0.03116 (0.00024)	-0.01871 (0.00023)
White	0.00216 (0.00065)	0.01256 (0.00060)	0.00417 (0.00062)	0.01328 (0.00057)
Black	-0.04230 (0.00074)	-0.02927 (0.00068)	-0.04067 (0.00071)	-0.02782 (0.00066)
Hispanic	-0.03719 (0.00105)	-0.03041 (0.00097)	-0.03162 (0.00102)	-0.02748 (0.00094)
Revisit	0.02565 (0.00092)	0.01503 (0.00085)	0.02920 (0.00090)	0.01919 (0.00083)
Heart attack	0.01363 (0.00046)	0.01798 (0.00043)	0.01234 (0.00046)	0.01714 (0.00043)
Alzheimer's	0.01677 (0.00034)	0.01005 (0.00032)	0.01450 (0.00034)	0.00840 (0.00031)
Atrial fibrillation	0.05229 (0.00029)	0.04215 (0.00027)	0.05008 (0.00029)	0.04097 (0.00026)
Chronic kidney disease	0.07272 (0.00031)	0.04885 (0.00029)	0.06187 (0.00036)	0.04242 (0.00033)
COPD	0.07142 (0.00032)	0.05399 (0.00029)	0.07066 (0.00031)	0.05425 (0.00029)
Congestive heart failure	0.02328 (0.00026)	0.01813 (0.00024)	0.02144 (0.00026)	0.01680 (0.00024)
Diabetes	0.02031 (0.00100)	0.02714 (0.00092)	0.02146 (0.00100)	0.02803 (0.00093)
Hip fracture	-0.01617 (0.00027)	-0.01702 (0.00025)	-0.01600 (0.00027)	-0.01657 (0.00025)
Ischemic heart disease	-0.01290 (0.00029)	0.00037 (0.00027)	-0.01443 (0.00029)	-0.00146 (0.00027)
Depression	-0.00376 (0.00042)	0.00358 (0.00039)	-0.00679 (0.00041)	0.00053 (0.00038)
Osteoporosis	0.00885 (0.00045)	0.01235 (0.00042)	0.00736 (0.00045)	0.01135 (0.00041)
Stroke	0.03443 (0.00028)	0.02700 (0.00026)	0.03628 (0.00027)	0.02849 (0.00025)
Anemia	-0.01998 (0.00044)	-0.02041 (0.00041)	0.00660 (0.00039)	0.00066 (0.00036)
Asthma	0.00433 (0.00037)	-0.00293 (0.00035)	0.00428 (0.00037)	-0.00347 (0.00034)
Cancer	0.01289 (0.00097)	0.00988 (0.00089)	0.01046 (0.00094)	0.00837 (0.00087)
Medicaid	-0.06567 (0.00034)	-0.04846 (0.00032)	-0.06663 (0.00034)	-0.04974 (0.00031)
Median income	-0.00346 (0.00007)	-0.00249 (0.00007)	-0.00367 (0.00007)	-0.00270 (0.00006)
Quarter 2	-0.01781 (0.00033)	-0.00851 (0.00030)	-0.01319 (0.00032)	-0.00536 (0.00030)
Quarter 3	-0.02613 (0.00033)	-0.01343 (0.00031)	-0.01608 (0.00033)	-0.00573 (0.00030)
Quarter 4	-0.01025 (0.00033)	-0.00504 (0.00031)	-0.00112 (0.00033)	0.00177 (0.00030)
Constant	0.04404 (0.00138)		0.05285 (0.00134)	
Infectious diseases		-0.47587 (0.00064)		-0.48630 (0.00063)
Neoplasms		-0.51644 (0.00089)		-0.52802 (0.00087)
Endocrine		-0.70931 (0.00067)		-0.71250 (0.00065)
Blood disorders		-0.61878 (0.00057)		-0.61631 (0.00056)
Mental illness		-0.74782 (0.00065)		-0.74644 (0.00064)
Nervous system		-0.07391 (0.00112)		-0.09033 (0.00109)
Circulatory system		-0.43905 (0.00078)		-0.44758 (0.00076)
Respiratory system		-0.31420 (0.00124)		-0.33649 (0.00123)
Digestive system		-0.60520 (0.00093)		-0.59522 (0.00093)
Genitourinary system		-0.65172 (0.00069)		-0.65059 (0.00068)
Skin conditions		-0.36665 (0.00057)		-0.37890 (0.00055)
Musculoskeletal conditions		-0.40485 (0.00060)		-0.41455 (0.00059)
Injury and poisoning		-0.34564 (0.00063)		-0.35495 (0.00061)
Signs/symptoms		-0.74036 (0.00104)		-0.74064 (0.00101)
Const		0.51922 (0.00137)		0.53175 (0.00134)
N	5,782,976	5,782,976	6,132,363	6,132,363
Sample mean	0.36524	0.36524	0.35586	0.35586

Appendix B: Regression coefficients from model 2

	2014		2015	
	β (SE)			
Ou				
Age	134 (0.5)	128 (0.4)	122 (0.4)	117 (0.4)
Female	-686 (7.6)	-496 (7.4)	-806 (7.4)	-607 (7.3)
White	650 (19.8)	773 (19.3)	682 (18.8)	790 (18.4)
Black	532 (22.5)	811 (22.1)	537 (21.6)	812 (21.2)
Hispanic	-1,057 (31.8)	-896 (31.2)	-857 (30.9)	-735 (30.2)
Revisit	1,032 (28.1)	936 (27.5)	1,086 (27.3)	999 (26.7)
Heart attack	863 (14.1)	722 (13.9)	817 (14.0)	693 (13.8)
Alzheimer's	567 (10.5)	492 (10.3)	509 (10.3)	444 (10.1)
Atrial fibrillation	2,205 (8.9)	2,054 (8.8)	2,143 (8.7)	2,011 (8.5)
Chronic kidney disease	2,241 (9.6)	1,988 (9.4)	1,810 (10.9)	1,592 (10.7)
COPD	2,628 (9.6)	2,407 (9.4)	2,637 (9.5)	2,426 (9.3)
Congestive heart failure	1,175 (8.0)	1,101 (7.8)	1,090 (7.9)	1,019 (7.8)
Diabetes	1,372 (30.4)	1,329 (29.8)	1,391 (30.4)	1,340 (29.8)
Hip fracture	-232 (8.3)	-170 (8.1)	-207 (8.2)	-141 (8.0)
Ischemic heart disease	1,091 (9.0)	1,213 (8.8)	947 (8.7)	1,066 (8.6)
Depression	393 (12.8)	455 (12.5)	332 (12.5)	403 (12.3)
Osteoporosis	1,147 (13.8)	1,184 (13.5)	1,131 (13.6)	1,177 (13.3)
Stroke	1,716 (8.4)	1,560 (8.3)	1,805 (8.3)	1,640 (8.1)
Anemia	-194 (13.4)	-113 (13.1)	684 (11.9)	668 (11.6)
Asthma	-14 (11.4)	-138 (11.1)	-3 (11.2)	-141 (10.9)
Cancer	856 (29.5)	842 (28.8)	972 (28.5)	965 (27.9)
Medicaid	-1,003 (10.4)	-697 (10.2)	-1,014 (10.3)	-712 (10.1)
Median income	-135 (2.2)	-125 (2.1)	-146 (2.1)	-134 (2.1)
Quarter 2	-207 (10.0)	-121 (9.8)	-144 (9.9)	-66 (9.7)
Quarter 3	-74 (10.1)	27 (9.9)	45 (9.9)	134 (9.7)
Quarter 4	365 (10.1)	372 (9.9)	382 (9.9)	378 (9.7)
Constant	-2,844 (42.0)		-2,058 (40.9)	
Infectious diseases		-10,819 (20.7)		-10,860 (20.2)
Neoplasms		-11,734 (28.8)		-11,755 (27.9)
Endocrine		-13,238 (21.6)		-13,199 (21.0)
Blood disorders		-10,565 (18.4)		-10,463 (17.9)
Mental illness		-14,403 (20.9)		-14,144 (20.5)
Nervous system		-1,296 (36.2)		-1,062 (35.0)
Circulatory system		-10,058 (25.1)		-9,805 (24.6)
Respiratory system		-7,351 (40.0)		-7,414 (39.5)
Digestive system		-11,146 (29.9)		-10,879 (29.9)
Genitourinary system		-13,486 (22.2)		-13,296 (21.8)
Skin conditions		-9,060 (18.3)		-9,064 (17.8)
Musculoskeletal conditions		-10,153 (19.3)		-10,133 (19.0)
Injury and poisoning		-9,655 (20.2)		-9,540 (19.7)
Signs/symptoms		-13,034 (33.4)		-12,905 (32.4)
Const		7,640 (44.2)		8,281 (43.0)
N	5,782,976	5,782,976	6,132,363	6,132,363
Sample mean	10,258	10,258	10,099	10,099

Appendix B: Regression coefficients from model 2

	2014		2015	
	β (SE)			
Outcome: Encounter spending				
Age	25 (0.2)	22 (0.2)	23 (0.2)	21 (0.2)
Female	-420 (3.1)	-292 (2.8)	-452 (3.1)	-319 (2.8)
White	-84 (8.0)	31 (7.4)	-52 (7.7)	51 (7.2)
Black	-482 (9.1)	-288 (8.5)	-454 (8.9)	-265 (8.3)
Hispanic	-470 (12.9)	-365 (11.9)	-390 (12.7)	-314 (11.8)
Revisit	356 (11.4)	263 (10.5)	387 (11.2)	297 (10.4)
Heart attack	149 (5.7)	126 (5.3)	124 (5.8)	114 (5.4)
Alzheimer's	108 (4.2)	39 (3.9)	89 (4.2)	26 (3.9)
Atrial fibrillation	617 (3.6)	526 (3.4)	586 (3.6)	509 (3.3)
Chronic kidney disease	705 (3.9)	482 (3.6)	610 (4.5)	423 (4.2)
COPD	765 (3.9)	592 (3.6)	768 (3.9)	601 (3.6)
Congestive heart failure	275 (3.2)	241 (3.0)	262 (3.2)	230 (3.0)
Diabetes	312 (12.3)	327 (11.4)	318 (12.5)	327 (11.6)
Hip fracture	-155 (3.4)	-139 (3.1)	-143 (3.4)	-125 (3.1)
Ischemic heart disease	-185 (3.6)	-61 (3.4)	-201 (3.6)	-79 (3.3)
Depression	-51 (5.2)	5 (4.8)	-81 (5.1)	-20 (4.8)
Osteoporosis	80 (5.6)	99 (5.2)	65 (5.6)	92 (5.2)
Stroke	473 (3.4)	379 (3.2)	500 (3.4)	400 (3.2)
Anemia	-296 (5.4)	-264 (5.0)	13 (4.9)	-23 (4.5)
Asthma	18 (4.6)	-76 (4.3)	24 (4.6)	-79 (4.3)
Cancer	-171 (11.9)	-171 (11.1)	-176 (11.7)	-167 (10.9)
Medicaid	-896 (4.2)	-664 (3.9)	-914 (4.2)	-685 (3.9)
Median income	-42 (0.9)	-33 (0.8)	-45 (0.9)	-36 (0.8)
Quarter 2	-153 (4.1)	-72 (3.8)	-113 (4.1)	-38 (3.8)
Quarter 3	-198 (4.1)	-94 (3.8)	-125 (4.1)	-30 (3.8)
Quarter 4	37 (4.1)	62 (3.8)	32 (4.1)	46 (3.8)
Constant	1,954 (17.0)		2,075 (16.8)	
Infectious diseases		-8,441 (7.9)		-8,442 (7.9)
Neoplasms		-8,797 (11.1)		-8,784 (10.9)
Endocrine		-9,687 (8.3)		-9,613 (8.2)
Blood disorders		-8,277 (7.1)		-8,194 (7.0)
Mental Illness		-10,025 (8.0)		-9,913 (8.0)
Nervous system		-957 (13.9)		-976 (13.7)
Circulatory system		-8,140 (9.6)		-8,036 (9.6)
Respiratory system		-6,845 (15.3)		-6,771 (15.4)
Digestive system		-9,225 (11.5)		-9,006 (11.6)
Genitourinary system		-9,358 (8.5)		-9,251 (8.5)
Skin conditions		-6,419 (7.0)		-6,411 (6.9)
Musculoskeletal conditions		-7,244 (7.4)		-7,234 (7.4)
Injury and poisoning		-6,733 (7.8)		-6,669 (7.7)
Signs/symptoms		-10,080 (12.8)		-9,942 (12.6)
Const		9,495 (17.0)		9,524 (16.8)
N	5,782,976	5,782,976	6,132,363	6,132,363
Sample mean	3,795	3,795	3,758	3,758

Appendix B: Regression coefficients from model 2

	2014		2015	
	β (SE)			
Outcome: Mortality				
Age	0.00201 (0.00001)	0.00199 (0.00001)	0.00194 (0.00001)	0.00194 (0.00001)
Female	-0.01339 (0.00012)	-0.01063 (0.00012)	-0.01377 (0.00012)	-0.01100 (0.00012)
White	-0.01422 (0.00032)	-0.01166 (0.00031)	-0.01198 (0.00030)	-0.00973 (0.00029)
Black	-0.01227 (0.00036)	-0.00952 (0.00035)	-0.01036 (0.00034)	-0.00777 (0.00034)
Hispanic	-0.00211 (0.00051)	-0.00020 (0.00050)	0.00081 (0.00049)	0.00218 (0.00048)
Revisit	0.00868 (0.00045)	0.00746 (0.00044)	0.00888 (0.00043)	0.00770 (0.00043)
Heart attack	0.03105 (0.00023)	0.03025 (0.00022)	0.03031 (0.00022)	0.02978 (0.00022)
Alzheimer's	0.00312 (0.00017)	0.00232 (0.00016)	0.00258 (0.00016)	0.00195 (0.00016)
Atrial fibrillation	0.01108 (0.00014)	0.00952 (0.00014)	0.01009 (0.00014)	0.00879 (0.00014)
Chronic kidney disease	0.01945 (0.00015)	0.01400 (0.00015)	0.01653 (0.00017)	0.01198 (0.00017)
COPD	0.02349 (0.00015)	0.02038 (0.00015)	0.02222 (0.00015)	0.01930 (0.00015)
Congestive heart failure	0.00068 (0.00013)	-0.00005 (0.00013)	0.00014 (0.00013)	-0.00055 (0.00012)
Diabetes	0.00856 (0.00049)	0.00926 (0.00048)	0.00958 (0.00048)	0.01016 (0.00048)
Hip fracture	-0.00831 (0.00013)	-0.00780 (0.00013)	-0.00790 (0.00013)	-0.00731 (0.00013)
Ischemic heart disease	-0.00115 (0.00014)	0.00097 (0.00014)	-0.00159 (0.00014)	0.00048 (0.00014)
Depression	-0.00365 (0.00020)	-0.00226 (0.00020)	-0.00423 (0.00020)	-0.00276 (0.00020)
Osteoporosis	-0.00021 (0.00022)	0.00003 (0.00022)	-0.00035 (0.00022)	0.00005 (0.00021)
Stroke	0.01363 (0.00013)	0.01208 (0.00013)	0.01356 (0.00013)	0.01192 (0.00013)
Anemia	-0.01272 (0.00021)	-0.01238 (0.00021)	-0.00060 (0.00019)	-0.00176 (0.00019)
Asthma	0.01113 (0.00018)	0.00812 (0.00018)	0.01064 (0.00018)	0.00752 (0.00017)
Cancer	-0.00092 (0.00047)	-0.00095 (0.00046)	-0.00016 (0.00045)	-0.00015 (0.00044)
Medicaid	-0.06603 (0.00017)	-0.06165 (0.00016)	-0.06377 (0.00016)	-0.05955 (0.00016)
Median income	-0.00172 (0.00003)	-0.00149 (0.00003)	-0.00172 (0.00003)	-0.00148 (0.00003)
Quarter 2	-0.00547 (0.00016)	-0.00368 (0.00016)	-0.00461 (0.00016)	-0.00294 (0.00015)
Quarter 3	-0.00534 (0.00016)	-0.00297 (0.00016)	-0.00326 (0.00016)	-0.00106 (0.00015)
Quarter 4	0.00077 (0.00016)	0.00158 (0.00016)	0.00284 (0.00016)	0.00343 (0.00015)
Constant	-0.07484 (0.00067)		-0.07448 (0.00065)	
Infectious diseases		-0.16065 (0.00033)		-0.15562 (0.00032)
Neoplasms		-0.17682 (0.00046)		-0.17077 (0.00044)
Endocrine		-0.17860 (0.00035)		-0.17249 (0.00034)
Blood disorders		-0.16947 (0.00030)		-0.16304 (0.00029)
Mental illness		-0.17727 (0.00034)		-0.16924 (0.00033)
Nervous system		0.06266 (0.00058)		0.06101 (0.00056)
Circulatory system		-0.15053 (0.00040)		-0.14309 (0.00039)
Respiratory system		-0.13636 (0.00064)		-0.13456 (0.00063)
Digestive system		-0.16267 (0.00048)		-0.15541 (0.00048)
Genitourinary system		-0.17089 (0.00036)		-0.16476 (0.00035)
Skin conditions		-0.12720 (0.00029)		-0.12330 (0.00028)
Musculoskeletal conditions		-0.13265 (0.00031)		-0.12734 (0.00030)
Injury and poisoning		-0.15835 (0.00032)		-0.15295 (0.00031)
Signs/symptoms		-0.15442 (0.00054)		-0.15076 (0.00052)
Const		0.06685 (0.00071)		0.06128 (0.00069)
N	5,782,976	5,782,976	6,132,363	6,132,363
Sample mean	0.05574	0.05574	0.05401	0.05401

Appendix B: Regression coefficients from model 2

	2014		2015	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00395 (0.00002)	0.00382 (0.00001)	0.00368 (0.00001)	0.00359 (0.00001)
Female	-0.03238 (0.00025)	-0.02002 (0.00023)	-0.03530 (0.00025)	-0.02288 (0.00023)
White	0.00070 (0.00066)	0.01119 (0.00061)	0.00260 (0.00063)	0.01181 (0.00058)
Black	-0.04636 (0.00075)	-0.03300 (0.00069)	-0.04489 (0.00072)	-0.03167 (0.00067)
Hispanic	-0.03797 (0.00106)	-0.03087 (0.00098)	-0.03276 (0.00103)	-0.02828 (0.00096)
Revisit	0.02977 (0.00094)	0.01735 (0.00086)	0.03322 (0.00091)	0.02152 (0.00084)
Heart attack	0.01195 (0.00047)	0.01711 (0.00044)	0.01038 (0.00047)	0.01596 (0.00044)
Alzheimer's	0.01716 (0.00035)	0.00938 (0.00032)	0.01468 (0.00034)	0.00759 (0.00032)
Atrial fibrillation	0.05412 (0.00030)	0.04408 (0.00028)	0.05169 (0.00029)	0.04272 (0.00027)
Chronic kidney disease	0.07064 (0.00032)	0.04779 (0.00030)	0.06067 (0.00036)	0.04192 (0.00034)
COPD	0.07245 (0.00032)	0.05432 (0.00030)	0.07193 (0.00032)	0.05481 (0.00029)
Congestive heart failure	0.02372 (0.00027)	0.01882 (0.00025)	0.02201 (0.00026)	0.01761 (0.00025)
Diabetes	0.02069 (0.00101)	0.02785 (0.00094)	0.02236 (0.00102)	0.02926 (0.00094)
Hip fracture	-0.01497 (0.00028)	-0.01676 (0.00026)	-0.01505 (0.00027)	-0.01652 (0.00025)
Ischemic heart disease	-0.01430 (0.00030)	-0.00055 (0.00028)	-0.01577 (0.00029)	-0.00230 (0.00027)
Depression	-0.00373 (0.00042)	0.00397 (0.00039)	-0.00679 (0.00042)	0.00088 (0.00039)
Osteoporosis	0.00938 (0.00046)	0.01256 (0.00043)	0.00815 (0.00045)	0.01187 (0.00042)
Stroke	0.03553 (0.00028)	0.02840 (0.00026)	0.03762 (0.00028)	0.03007 (0.00026)
Anemia	-0.02200 (0.00045)	-0.02188 (0.00041)	0.00467 (0.00040)	-0.00077 (0.00037)
Asthma	0.00412 (0.00038)	-0.00279 (0.00035)	0.00412 (0.00037)	-0.00331 (0.00035)
Cancer	0.01079 (0.00098)	0.00787 (0.00091)	0.00854 (0.00095)	0.00659 (0.00088)
Medicaid	-0.07057 (0.00035)	-0.05268 (0.00032)	-0.07113 (0.00034)	-0.05358 (0.00032)
Median income	-0.00329 (0.00007)	-0.00234 (0.00007)	-0.00353 (0.00007)	-0.00257 (0.00007)
Quarter 2	-0.01783 (0.00033)	-0.00859 (0.00031)	-0.01323 (0.00033)	-0.00536 (0.00031)
Quarter 3	-0.02566 (0.00034)	-0.01308 (0.00031)	-0.01576 (0.00033)	-0.00532 (0.00031)
Quarter 4	-0.00911 (0.00034)	-0.00412 (0.00031)	0.00016 (0.00033)	0.00308 (0.00031)
Constant	0.07533 (0.00140)		0.08373 (0.00137)	
Infectious diseases		-0.47683 (0.00065)		-0.48819 (0.00064)
Neoplasms		-0.51927 (0.00091)		-0.53078 (0.00088)
Endocrine		-0.71287 (0.00068)		-0.71747 (0.00066)
Blood disorders		-0.61022 (0.00058)		-0.60850 (0.00057)
Mental illness		-0.74489 (0.00066)		-0.74432 (0.00065)
Nervous system		-0.06663 (0.00114)		-0.08256 (0.00111)
Circulatory system		-0.44006 (0.00079)		-0.44940 (0.00078)
Respiratory system		-0.30528 (0.00126)		-0.32597 (0.00125)
Digestive system		-0.59745 (0.00094)		-0.58819 (0.00094)
Genitourinary system		-0.64875 (0.00070)		-0.64838 (0.00069)
Skin conditions		-0.34244 (0.00057)		-0.35605 (0.00056)
Musculoskeletal conditions		-0.40440 (0.00061)		-0.41425 (0.00060)
Injury and poisoning		-0.33822 (0.00064)		-0.34749 (0.00062)
Signs/symptoms		-0.72189 (0.00105)		-0.72494 (0.00102)
Const		0.54390 (0.00139)		0.55653 (0.00136)
N	5,782,976	5,782,976	6,132,363	6,132,363
Sample mean	0.38224	0.38224	0.37346	0.37346

Appendix B: Regression coefficients from model 2

	2016		2017	
	β (SE)			
Outcome: Admission				
Age	0.00379 (0.00001)	0.00371 (0.00001)	0.00367 (0.00001)	0.00362 (0.00001)
Female	-0.03077 (0.00024)	-0.01882 (0.00022)	-0.03098 (0.00024)	-0.01977 (0.00023)
White	0.00413 (0.00060)	0.01376 (0.00055)	0.00584 (0.00058)	0.01471 (0.00054)
Black	-0.03991 (0.00069)	-0.02624 (0.00064)	-0.03677 (0.00068)	-0.02397 (0.00063)
Hispanic	-0.03063 (0.00100)	-0.02558 (0.00092)	-0.02741 (0.00099)	-0.02370 (0.00092)
Revisit	0.02631 (0.00086)	0.01573 (0.00080)	0.02820 (0.00084)	0.01801 (0.00078)
Heart attack	0.01280 (0.00046)	0.01704 (0.00042)	0.01094 (0.00046)	0.01563 (0.00043)
Alzheimer's	0.01494 (0.00033)	0.00839 (0.00031)	0.01465 (0.00033)	0.00816 (0.00031)
Atrial fibrillation	0.04520 (0.00028)	0.03637 (0.00026)	0.04447 (0.00028)	0.03575 (0.00026)
Chronic kidney disease	0.07024 (0.00030)	0.04844 (0.00028)	0.06885 (0.00030)	0.04764 (0.00028)
COPD	0.07264 (0.00031)	0.05613 (0.00028)	0.07284 (0.00031)	0.05649 (0.00029)
Congestive heart failure	0.01779 (0.00026)	0.01327 (0.00024)	0.01662 (0.00027)	0.01221 (0.00025)
Diabetes	0.02633 (0.00103)	0.03223 (0.00095)	0.02432 (0.00102)	0.03102 (0.00094)
Hip fracture	-0.01533 (0.00027)	-0.01574 (0.00025)	-0.01565 (0.00027)	-0.01590 (0.00025)
Ischemic heart disease	-0.01196 (0.00028)	0.00068 (0.00026)	-0.01231 (0.00028)	0.00011 (0.00026)
Depression	-0.00624 (0.00041)	0.00095 (0.00038)	-0.00703 (0.00041)	0.00015 (0.00038)
Osteoporosis	0.00686 (0.00045)	0.01154 (0.00041)	0.00614 (0.00044)	0.01063 (0.00041)
Stroke	0.03874 (0.00027)	0.03018 (0.00025)	0.03977 (0.00027)	0.03119 (0.00025)
Anemia	-0.02974 (0.00043)	-0.02686 (0.00040)	-0.03303 (0.00043)	-0.02919 (0.00040)
Asthma	0.00362 (0.00036)	-0.00389 (0.00033)	0.00311 (0.00036)	-0.00365 (0.00033)
Cancer	0.01449 (0.00093)	0.01169 (0.00086)	0.01024 (0.00093)	0.00860 (0.00086)
Medicaid	-0.06461 (0.00034)	-0.04798 (0.00031)	-0.06519 (0.00034)	-0.04836 (0.00031)
Median income	-0.00363 (0.00007)	-0.00270 (0.00006)	-0.00393 (0.00007)	-0.00298 (0.00006)
Quarter 2	-0.01377 (0.00032)	-0.00453 (0.00030)	-0.01637 (0.00032)	-0.00502 (0.00030)
Quarter 3	-0.01958 (0.00032)	-0.00738 (0.00030)	-0.02105 (0.00032)	-0.00658 (0.00030)
Quarter 4	-0.00322 (0.00032)	0.00062 (0.00030)	-0.00589 (0.00032)	0.00286 (0.00030)
Constant	0.05472 (0.00132)		0.06675 (0.00132)	
Infectious diseases		-0.49170 (0.00061)		-0.49054 (0.00061)
Neoplasms		-0.53879 (0.00085)		-0.53961 (0.00085)
Endocrine		-0.71624 (0.00064)		-0.71202 (0.00063)
Blood disorders		-0.61415 (0.00054)		-0.60910 (0.00053)
Mental Illness		-0.75515 (0.00062)		-0.75536 (0.00062)
Nervous system		-0.09654 (0.00108)		-0.10043 (0.00108)
Circulatory system		-0.44268 (0.00074)		-0.43668 (0.00074)
Respiratory system		-0.33555 (0.00120)		-0.34212 (0.00119)
Digestive system		-0.59113 (0.00092)		-0.58613 (0.00091)
Genitourinary system		-0.65154 (0.00066)		-0.64858 (0.00066)
Skin conditions		-0.38089 (0.00054)		-0.38368 (0.00053)
Musculoskeletal conditions		-0.42690 (0.00057)		-0.43023 (0.00057)
Injury and poisoning		-0.36424 (0.00060)		-0.36729 (0.00059)
Signs/symptoms		-0.75686 (0.00101)		-0.71611 (0.00099)
Const		0.53467 (0.00131)		0.54091 (0.00131)
N	6,452,614	6,452,614	6,343,603	6,343,603
Sample mean	0.35505	0.35505	0.35530	0.35530

Appendix B: Regression coefficients from model 2

	2016		2017	
	β (SE)			
Outcome: 90-day spending				
Age	119 (0.4)	114 (0.4)	112 (0.4)	108 (0.4)
Female	-811 (7.3)	-619 (7.2)	-858 (7.4)	-667 (7.2)
White	668 (18.0)	785 (17.6)	755 (17.7)	861 (17.3)
Black	523 (20.8)	801 (20.4)	742 (20.6)	1,009 (20.2)
Hispanic	-852 (30.1)	-721 (29.5)	-817 (30.1)	-707 (29.4)
Revisit	1,238 (26.0)	1,122 (25.4)	1,453 (25.6)	1,340 (25.0)
Heart attack	766 (13.8)	650 (13.5)	677 (14.0)	565 (13.8)
Alzheimer's	582 (10.1)	499 (9.9)	617 (10.1)	536 (9.9)
Atrial fibrillation	1,928 (8.5)	1,798 (8.3)	1,888 (8.6)	1,755 (8.4)
Chronic kidney disease	2,220 (9.2)	2,009 (9.0)	2,235 (9.2)	2,023 (9.1)
COPD	2,769 (9.3)	2,556 (9.1)	2,801 (9.4)	2,584 (9.2)
Congestive heart failure	970 (8.0)	892 (7.8)	935 (8.1)	856 (8.0)
Diabetes	1,426 (31.1)	1,378 (30.4)	1,375 (30.9)	1,335 (30.2)
Hip fracture	-144 (8.0)	-90 (7.9)	-138 (8.1)	-77 (8.0)
Ischemic heart disease	1,057 (8.5)	1,178 (8.4)	979 (8.5)	1,099 (8.4)
Depression	297 (12.4)	369 (12.1)	274 (12.4)	351 (12.1)
Osteoporosis	1,101 (13.5)	1,153 (13.2)	1,185 (13.5)	1,234 (13.2)
Stroke	1,920 (8.1)	1,747 (8.0)	2,003 (8.2)	1,828 (8.0)
Anemia	-522 (13.0)	-396 (12.7)	-620 (13.2)	-478 (12.9)
Asthma	-22 (10.9)	-151 (10.7)	-32 (10.9)	-150 (10.7)
Cancer	1,053 (28.1)	1,038 (27.5)	1,044 (28.3)	1,046 (27.7)
Medicaid	-932 (10.1)	-633 (9.9)	-891 (10.3)	-584 (10.1)
Median income	-152 (2.1)	-141 (2.0)	-153 (2.1)	-142 (2.0)
Quarter 2	-112 (9.7)	-38 (9.5)	-162 (9.8)	-57 (9.6)
Quarter 3	87 (9.7)	178 (9.5)	19 (9.8)	145 (9.6)
Quarter 4	527 (9.7)	528 (9.5)	494 (9.8)	555 (9.6)
Constant	-1,883 (39.9)		-1,343 (40.1)	
Infectious diseases		-10,586 (19.5)		-10,753 (19.4)
Neoplasms		-11,481 (27.3)		-11,703 (27.4)
Endocrine		-12,893 (20.3)		-13,039 (20.3)
Blood disorders		-10,059 (17.2)		-10,207 (17.1)
Mental Illness		-13,803 (20.0)		-14,068 (20.0)
Nervous system		-847 (34.5)		-926 (34.6)
Circulatory system		-9,124 (23.7)		-9,190 (23.6)
Respiratory system		-6,862 (38.2)		-7,130 (38.1)
Digestive system		-10,588 (29.3)		-10,634 (29.2)
Genitourinary system		-12,860 (21.1)		-13,035 (21.0)
Skin conditions		-8,561 (17.1)		-8,775 (17.0)
Musculoskeletal conditions		-10,024 (18.2)		-10,260 (18.2)
Injury and poisoning		-9,449 (19.1)		-9,714 (19.1)
Signs/symptoms		-12,655 (32.3)		-12,297 (31.7)
Const		8,093 (41.9)		8,715 (42.0)
N	6,452,614	6,452,614	6,343,603	6,343,603
Sample mean	10,062	10,062	10,166	10,166

Appendix B: Regression coefficients from model 2

	2016		2017	
	β (SE)			
Outcome: Encounter spending				
Age	23 (0.2)	21 (0.2)	23 (0.2)	22 (0.2)
Female	-435 (3.0)	-308 (2.8)	-448 (3.0)	-323 (2.8)
White	-51 (7.3)	57 (6.8)	-32 (7.3)	70 (6.8)
Black	-443 (8.5)	-252 (7.9)	-429 (8.5)	-244 (7.9)
Hispanic	-377 (12.3)	-293 (11.4)	-360 (12.4)	-289 (11.5)
Revisit	373 (10.6)	265 (9.8)	389 (10.5)	284 (9.8)
Heart attack	120 (5.6)	111 (5.2)	110 (5.8)	102 (5.4)
Alzheimer's	113 (4.1)	38 (3.8)	118 (4.2)	43 (3.9)
Atrial fibrillation	514 (3.5)	440 (3.2)	509 (3.5)	431 (3.3)
Chronic kidney disease	672 (3.7)	476 (3.5)	680 (3.8)	482 (3.5)
COPD	797 (3.8)	628 (3.5)	811 (3.9)	637 (3.6)
Congestive heart failure	227 (3.3)	191 (3.0)	224 (3.4)	185 (3.1)
Diabetes	366 (12.7)	375 (11.8)	348 (12.7)	364 (11.8)
Hip fracture	-116 (3.3)	-105 (3.0)	-126 (3.3)	-111 (3.1)
Ischemic heart disease	-169 (3.5)	-48 (3.2)	-172 (3.5)	-51 (3.3)
Depression	-79 (5.0)	-18 (4.7)	-86 (5.1)	-22 (4.7)
Osteoporosis	69 (5.5)	100 (5.1)	74 (5.6)	102 (5.2)
Stroke	518 (3.3)	414 (3.1)	538 (3.4)	434 (3.1)
Anemia	-403 (5.3)	-337 (4.9)	-444 (5.4)	-365 (5.0)
Asthma	7 (4.5)	-88 (4.1)	2 (4.5)	-83 (4.2)
Cancer	-136 (11.5)	-135 (10.6)	-171 (11.7)	-157 (10.8)
Medicaid	-868 (4.1)	-644 (3.8)	-882 (4.2)	-650 (3.9)
Median income	-45 (0.8)	-36 (0.8)	-48 (0.9)	-39 (0.8)
Quarter 2	-107 (4.0)	-30 (3.7)	-144 (4.0)	-40 (3.7)
Quarter 3	-132 (4.0)	-32 (3.7)	-173 (4.0)	-43 (3.8)
Quarter 4	113 (4.0)	132 (3.7)	95 (4.0)	166 (3.7)
Constant	1,971 (16.3)		2,094 (16.5)	
Infectious diseases		-8,235 (7.6)		-8,380 (7.6)
Neoplasms		-8,584 (10.6)		-8,805 (10.7)
Endocrine		-9,365 (7.9)		-9,565 (7.9)
Blood disorders		-7,901 (6.7)		-8,071 (6.7)
Mental Illness		-9,700 (7.7)		-9,937 (7.8)
Nervous system		-910 (13.3)		-1,169 (13.5)
Circulatory system		-7,597 (9.2)		-7,676 (9.2)
Respiratory system		-6,316 (14.8)		-6,599 (14.9)
Digestive system		-8,699 (11.3)		-8,821 (11.4)
Genitourinary system		-8,954 (8.2)		-9,131 (8.2)
Skin conditions		-6,057 (6.6)		-6,258 (6.6)
Musculoskeletal conditions		-7,133 (7.0)		-7,345 (7.1)
Injury and poisoning		-6,635 (7.4)		-6,888 (7.5)
Signs/symptoms		-9,754 (12.5)		-9,537 (12.4)
Const		9,172 (16.2)		9,410 (16.4)
N	6,452,614	6,452,614	6,343,603	6,343,603
Sample mean	3,756	3,756	3,852	3,852

Appendix B: Regression coefficients from model 2

	2016		2017	
	β (SE)			
Outcome: Mortality				
Age	0.00192 (0.00001)	0.00191 (0.00001)	0.00188 (0.00001)	0.00189 (0.00001)
Female	-0.01304 (0.00012)	-0.01041 (0.00011)	-0.01289 (0.00012)	-0.01046 (0.00011)
White	-0.01190 (0.00029)	-0.00960 (0.00028)	-0.01150 (0.00028)	-0.00938 (0.00027)
Black	-0.01008 (0.00033)	-0.00740 (0.00033)	-0.00881 (0.00033)	-0.00629 (0.00032)
Hispanic	0.00050 (0.00048)	0.00193 (0.00047)	0.00244 (0.00047)	0.00361 (0.00047)
Revisit	0.00670 (0.00041)	0.00536 (0.00041)	0.00866 (0.00040)	0.00733 (0.00040)
Heart attack	0.03063 (0.00022)	0.02999 (0.00022)	0.03012 (0.00022)	0.02977 (0.00022)
Alzheimer's	0.00263 (0.00016)	0.00190 (0.00016)	0.00214 (0.00016)	0.00140 (0.00016)
Atrial fibrillation	0.00865 (0.00014)	0.00737 (0.00013)	0.00800 (0.00013)	0.00676 (0.00013)
Chronic kidney disease	0.01812 (0.00015)	0.01336 (0.00014)	0.01747 (0.00014)	0.01285 (0.00014)
COPD	0.02222 (0.00015)	0.01942 (0.00015)	0.02143 (0.00015)	0.01865 (0.00015)
Congestive heart failure	-0.00044 (0.00013)	-0.00111 (0.00013)	-0.00104 (0.00013)	-0.00163 (0.00013)
Diabetes	0.01020 (0.00050)	0.01077 (0.00049)	0.00954 (0.00049)	0.01030 (0.00048)
Hip fracture	-0.00718 (0.00013)	-0.00666 (0.00013)	-0.00674 (0.00013)	-0.00622 (0.00013)
Ischemic heart disease	-0.00128 (0.00014)	0.00069 (0.00013)	-0.00138 (0.00013)	0.00064 (0.00013)
Depression	-0.00435 (0.00020)	-0.00292 (0.00019)	-0.00449 (0.00020)	-0.00304 (0.00019)
Osteoporosis	-0.00015 (0.00021)	0.00031 (0.00021)	-0.00025 (0.00021)	0.00021 (0.00021)
Stroke	0.01478 (0.00013)	0.01305 (0.00013)	0.01482 (0.00013)	0.01317 (0.00013)
Anemia	-0.01453 (0.00021)	-0.01351 (0.00020)	-0.01582 (0.00021)	-0.01463 (0.00020)
Asthma	0.01022 (0.00017)	0.00722 (0.00017)	0.00986 (0.00017)	0.00711 (0.00017)
Cancer	-0.00021 (0.00045)	-0.00027 (0.00044)	-0.00067 (0.00045)	-0.00058 (0.00044)
Medicaid	-0.06293 (0.00016)	-0.05883 (0.00016)	-0.06273 (0.00016)	-0.05864 (0.00016)
Median income	-0.00172 (0.00003)	-0.00150 (0.00003)	-0.00180 (0.00003)	-0.00158 (0.00003)
Quarter 2	-0.00454 (0.00015)	-0.00275 (0.00015)	-0.00551 (0.00015)	-0.00319 (0.00015)
Quarter 3	-0.00355 (0.00016)	-0.00121 (0.00015)	-0.00498 (0.00015)	-0.00208 (0.00015)
Quarter 4	0.00329 (0.00015)	0.00395 (0.00015)	0.00135 (0.00015)	0.00291 (0.00015)
Constant	-0.07302 (0.00064)		-0.06967 (0.00063)	
Infectious diseases		-0.15272 (0.00031)		-0.14800 (0.00031)
Neoplasms		-0.16687 (0.00044)		-0.16198 (0.00043)
Endocrine		-0.16879 (0.00033)		-0.16384 (0.00032)
Blood disorders		-0.15866 (0.00028)		-0.15348 (0.00027)
Mental illness		-0.16657 (0.00032)		-0.16035 (0.00032)
Nervous system		0.06250 (0.00055)		0.05936 (0.00055)
Circulatory system		-0.13986 (0.00038)		-0.13558 (0.00037)
Respiratory system		-0.12878 (0.00061)		-0.12489 (0.00060)
Digestive system		-0.15011 (0.00047)		-0.14546 (0.00046)
Genitourinary system		-0.16059 (0.00034)		-0.15530 (0.00033)
Skin conditions		-0.11970 (0.00027)		-0.11552 (0.00027)
Musculoskeletal conditions		-0.12815 (0.00029)		-0.12396 (0.00029)
Injury and poisoning		-0.14917 (0.00031)		-0.14462 (0.00030)
Signs/symptoms		-0.14747 (0.00052)		-0.14308 (0.00050)
Const		0.05937 (0.00067)		0.05679 (0.00066)
N	6,452,614	6,452,614	6,343,603	6,343,603
Sample mean	0.05367	0.05367	0.05288	0.05288

Appendix B: Regression coefficients from model 2

	2016		2017	
	β (SE)			
Outcome: 30-day revisit				
Age	0.00366 (0.00001)	0.00356 (0.00001)	0.00354 (0.00001)	0.00348 (0.00001)
Female	-0.03485 (0.00025)	-0.02291 (0.00023)	-0.03510 (0.00025)	-0.02388 (0.00023)
White	0.00241 (0.00061)	0.01216 (0.00056)	0.00427 (0.00059)	0.01328 (0.00055)
Black	-0.04407 (0.00070)	-0.03001 (0.00065)	-0.04089 (0.00069)	-0.02769 (0.00064)
Hispanic	-0.03183 (0.00101)	-0.02641 (0.00094)	-0.02928 (0.00101)	-0.02522 (0.00093)
Revisit	0.03087 (0.00087)	0.01865 (0.00081)	0.03235 (0.00086)	0.02061 (0.00079)
Heart attack	0.01085 (0.00046)	0.01587 (0.00043)	0.00900 (0.00047)	0.01448 (0.00044)
Alzheimer's	0.01524 (0.00034)	0.00768 (0.00031)	0.01499 (0.00034)	0.00750 (0.00032)
Atrial fibrillation	0.04651 (0.00029)	0.03781 (0.00026)	0.04592 (0.00029)	0.03735 (0.00027)
Chronic kidney disease	0.06852 (0.00031)	0.04769 (0.00029)	0.06706 (0.00031)	0.04677 (0.00029)
COPD	0.07392 (0.00031)	0.05670 (0.00029)	0.07422 (0.00031)	0.05715 (0.00029)
Congestive heart failure	0.01825 (0.00027)	0.01396 (0.00025)	0.01705 (0.00027)	0.01287 (0.00025)
Diabetes	0.02745 (0.00105)	0.03365 (0.00097)	0.02527 (0.00103)	0.03225 (0.00096)
Hip fracture	-0.01430 (0.00027)	-0.01555 (0.00025)	-0.01475 (0.00027)	-0.01579 (0.00025)
Ischemic heart disease	-0.01347 (0.00029)	-0.00034 (0.00027)	-0.01371 (0.00029)	-0.00078 (0.00027)
Depression	-0.00604 (0.00042)	0.00149 (0.00039)	-0.00678 (0.00041)	0.00075 (0.00038)
Osteoporosis	0.00775 (0.00045)	0.01216 (0.00042)	0.00720 (0.00045)	0.01141 (0.00042)
Stroke	0.04027 (0.00027)	0.03187 (0.00025)	0.04154 (0.00027)	0.03310 (0.00025)
Anemia	-0.03210 (0.00044)	-0.02870 (0.00040)	-0.03526 (0.00044)	-0.03094 (0.00041)
Asthma	0.00343 (0.00037)	-0.00380 (0.00034)	0.00313 (0.00037)	-0.00337 (0.00034)
Cancer	0.01297 (0.00095)	0.01029 (0.00087)	0.00848 (0.00095)	0.00700 (0.00088)
Medicaid	-0.06922 (0.00034)	-0.05192 (0.00032)	-0.06946 (0.00034)	-0.05192 (0.00032)
Median income	-0.00353 (0.00007)	-0.00261 (0.00006)	-0.00381 (0.00007)	-0.00288 (0.00006)
Quarter 2	-0.01369 (0.00033)	-0.00461 (0.00030)	-0.01567 (0.00033)	-0.00461 (0.00030)
Quarter 3	-0.01907 (0.00033)	-0.00706 (0.00030)	-0.02027 (0.00033)	-0.00608 (0.00031)
Quarter 4	-0.00220 (0.00033)	0.00154 (0.00030)	-0.00404 (0.00033)	0.00441 (0.00030)
Constant	0.08636 (0.00134)		0.09769 (0.00134)	
Infectious diseases		-0.49433 (0.00062)		-0.49337 (0.00062)
Neoplasms		-0.54230 (0.00087)		-0.54352 (0.00087)
Endocrine		-0.72243 (0.00065)		-0.71874 (0.00064)
Blood disorders		-0.60654 (0.00055)		-0.60166 (0.00054)
Mental illness		-0.75436 (0.00064)		-0.75495 (0.00063)
Nervous system		-0.08810 (0.00110)		-0.09168 (0.00110)
Circulatory system		-0.44514 (0.00075)		-0.43958 (0.00075)
Respiratory system		-0.32513 (0.00122)		-0.33100 (0.00121)
Digestive system		-0.58594 (0.00093)		-0.58158 (0.00093)
Genitourinary system		-0.64960 (0.00067)		-0.64642 (0.00067)
Skin conditions		-0.35901 (0.00054)		-0.36218 (0.00054)
Musculoskeletal conditions		-0.42819 (0.00058)		-0.43160 (0.00058)
Injury and poisoning		-0.35655 (0.00061)		-0.35916 (0.00061)
Signs/symptoms		-0.74197 (0.00103)		-0.70083 (0.00101)
Const		0.56113 (0.00133)		0.56686 (0.00133)
N	6,452,614	6,452,614	6,343,603	6,343,603
Sample mean	0.37333	0.37333	0.37430	0.37430

Appendix B: Regression coefficients from model 2

	2018	
	β (SE)	
Outcome: Admission		
Age	0.00343 (0.00001)	0.00072 (0.00001)
Female	-0.03030 (0.00024)	-0.00503 (0.00010)
White	0.00708 (0.00057)	0.00208 (0.00024)
Black	-0.03507 (0.00067)	-0.00533 (0.00028)
Hispanic	-0.02548 (0.00098)	-0.00402 (0.00042)
Revisit	0.02903 (0.00084)	0.00251 (0.00036)
Heart attack	0.01144 (0.00047)	-0.00025 (0.00020)
Alzheimer's	0.01372 (0.00033)	0.00091 (0.00014)
Atrial fibrillation	0.04391 (0.00028)	0.00690 (0.00012)
Chronic kidney disease	0.06671 (0.00030)	0.00446 (0.00013)
COPD	0.07227 (0.00031)	0.00598 (0.00013)
Congestive heart failure	0.01713 (0.00027)	0.00102 (0.00011)
Diabetes	0.02464 (0.00101)	0.01429 (0.00043)
Hip fracture	-0.01539 (0.00027)	-0.00148 (0.00011)
Ischemic heart disease	-0.01265 (0.00028)	-0.00047 (0.00012)
Depression	-0.00848 (0.00040)	0.00127 (0.00017)
Osteoporosis	0.00550 (0.00045)	0.00383 (0.00019)
Stroke	0.04097 (0.00027)	0.00721 (0.00011)
Anemia	-0.03536 (0.00044)	-0.00712 (0.00019)
Asthma	0.00354 (0.00036)	-0.00028 (0.00015)
Cancer	0.01441 (0.00093)	0.00060 (0.00039)
Medicaid	-0.06376 (0.00034)	-0.00812 (0.00015)
Median income	-0.00398 (0.00007)	-0.00081 (0.00003)
Quarter 2	-0.01081 (0.00032)	-0.00257 (0.00014)
Quarter 3	-0.01751 (0.00032)	-0.00298 (0.00014)
Quarter 4	-0.00224 (0.00032)	0.00228 (0.00014)
Constant	0.07693 (0.00132)	
Infectious diseases		-0.00081 (0.00038)
Neoplasms		0.00121 (0.00065)
Endocrine		-0.03559 (0.00060)
Blood disorders		-0.75325 (0.00026)
Mental Illness		-0.21368 (0.00066)
Nervous system		-0.00364 (0.00056)
Circulatory system		-0.00380 (0.00046)
Respiratory system		-0.00147 (0.00072)
Digestive system		-0.04404 (0.00073)
Genitourinary system		-0.00813 (0.00053)
Skin conditions		-0.00247 (0.00028)
Musculoskeletal conditions		0.00197 (0.00033)
Injury and poisoning		0.00118 (0.00034)
Signs/symptoms		-0.97857 (0.00024)
Const		0.93801 (0.00060)
N	.6,224,072	.6,224,072
Sample mean	0.35242	0.35242

Appendix B: Regression coefficients from model 2

	2018	
	β (SE)	
Outcome: 90-day spending		
Age	98 (0.5)	60 (0.5)
Female	-865 (8.6)	-491 (7.8)
White	732 (20.0)	674 (18.3)
Black	772 (23.6)	1,270 (21.5)
Hispanic	-740 (34.5)	-412 (31.6)
Revisit	1,465 (28.9)	1,153 (26.5)
Heart attack	720 (16.3)	450 (14.9)
Alzheimer's	584 (11.6)	425 (10.7)
Atrial fibrillation	1,871 (9.9)	1,393 (9.0)
Chronic kidney disease	2,174 (10.5)	1,435 (9.7)
COPD	2,833 (10.8)	1,991 (9.9)
Congestive heart failure	964 (9.4)	738 (8.6)
Diabetes	1,448 (35.0)	1,174 (32.0)
Hip fracture	-126 (9.4)	129 (8.6)
Ischemic heart disease	1,009 (9.7)	1,137 (8.9)
Depression	244 (14.1)	330 (12.9)
Osteoporosis	1,082 (15.5)	1,072 (14.2)
Stroke	2,159 (9.4)	1,684 (8.6)
Anemia	-719 (15.4)	-299 (14.1)
Asthma	-8 (12.5)	-80 (11.4)
Cancer	1,218 (36.8)	1,030 (33.6)
Medicaid	-1,274 (12.1)	-372 (11.1)
Median income	-147 (2.4)	-107 (2.2)
Quarter 2	-181 (9.8)	-93 (9.0)
Quarter 3	-64 (9.9)	88 (9.1)
Quarter 4	494 (9.8)	555 (9.6)
Constant	-218 (46.0)	
Infectious diseases		-5,834 (28.6)
Neoplasms		-5,705 (49.3)
Endocrine		-79 (46.2)
Blood disorders		-12,813 (19.8)
Mental Illness		-10,356 (50.2)
Nervous system		360 (42.3)
Circulatory system		-4,128 (34.7)
Respiratory system		-5,164 (54.5)
Digestive system		-4,652 (55.5)
Genitourinary system		-4,811 (40.8)
Skin conditions		-4,576 (21.6)
Musculoskeletal conditions		-5,851 (24.9)
Injury and poisoning		-6,554 (25.6)
Signs/symptoms		-17,312 (18.5)
Const		15,319 (45.7)
N	.2,188,009	.2,188,009
Sample mean	10,148	10,148

Appendix B: Regression coefficients from model 2

	2018	
	β (SE)	
Outcome: Encounter spending		
Age	22 (0.2)	-2 (0.1)
Female	-450 (3.1)	-190 (2.4)
White	4 (7.3)	-14 (5.6)
Black	-406 (8.6)	-83 (6.6)
Hispanic	-319 (12.7)	-105 (9.7)
Revisit	380 (10.8)	158 (8.3)
Heart attack	109 (6.1)	-37 (4.7)
Alzheimer's	112 (4.3)	-6 (3.3)
Atrial fibrillation	511 (3.6)	205 (2.8)
Chronic kidney disease	647 (3.9)	102 (3.0)
COPD	807 (4.0)	228 (3.1)
Congestive heart failure	243 (3.5)	102 (2.7)
Diabetes	368 (13.1)	232 (10.0)
Hip fracture	-128 (3.5)	22 (2.7)
Ischemic heart disease	-181 (3.6)	-64 (2.8)
Depression	-94 (5.2)	-11 (4.0)
Osteoperosis	82 (5.7)	71 (4.4)
Stroke	568 (3.5)	263 (2.7)
Anemia	-464 (5.7)	-189 (4.4)
Asthma	5 (4.6)	-55 (3.5)
Cancer	-175 (12.0)	-261 (9.2)
Medicaid	-882 (4.4)	-340 (3.4)
Median income	-50 (0.9)	-22 (0.7)
Quarter 2	-109 (4.2)	-37 (3.2)
Quarter 3	-159 (4.2)	-33 (3.2)
Quarter 4	112 (4.2)	144 (3.2)
Constant	2,229 (17.0)	
Infectious diseases		-6,231 (8.8)
Neoplasms		-6,142 (15.2)
Endocrine		-3,744 (14.1)
Blood disorders		-10,003 (6.1)
Mental Illness		-8,114 (15.5)
Nervous system		67 (13.0)
Circulatory system		-5,266 (10.7)
Respiratory system		-4,862 (16.8)
Digestive system		-5,249 (17.1)
Genitourinary system		-5,309 (12.5)
Skin conditions		-3,678 (6.6)
Musculoskeletal conditions		-4,693 (7.7)
Injury and poisoning		-4,857 (7.9)
Signs/symptoms		-12,407 (5.7)
Const		13,461 (14.2)
N	.6,224,072	.6,224,072
Sample mean	3,923	3,923

Appendix B: Regression coefficients from model 2

	2018	
	β (SE)	
Outcome: Mortality		
Age	0.00176 (0.00001)	0.00163 (0.00001)
Female	-0.01235 (0.00011)	-0.00928 (0.00011)
White	-0.01007 (0.00027)	-0.00915 (0.00026)
Black	-0.00796 (0.00031)	-0.00517 (0.00031)
Hispanic	0.00355 (0.00046)	0.00537 (0.00045)
Revisit	0.00797 (0.00040)	0.00701 (0.00039)
Heart attack	0.03008 (0.00022)	0.02806 (0.00022)
Alzheimer's	0.00185 (0.00016)	0.00150 (0.00015)
Atrial fibrillation	0.00759 (0.00013)	0.00500 (0.00013)
Chronic kidney disease	0.01611 (0.00014)	0.00906 (0.00014)
COPD	0.02035 (0.00014)	0.01574 (0.00014)
Congestive heart failure	-0.00093 (0.00013)	-0.00213 (0.00012)
Diabetes	0.00971 (0.00048)	0.00915 (0.00047)
Hip fracture	-0.00648 (0.00013)	-0.00472 (0.00012)
Ischemic heart disease	-0.00158 (0.00013)	-0.00026 (0.00013)
Depression	-0.00517 (0.00019)	-0.00392 (0.00019)
Osteoporosis	0.00024 (0.00021)	0.00016 (0.00021)
Stroke	0.01461 (0.00013)	0.01188 (0.00012)
Anemia	-0.01523 (0.00021)	-0.01297 (0.00020)
Asthma	0.00852 (0.00017)	0.00644 (0.00016)
Cancer	-0.00040 (0.00044)	-0.00104 (0.00043)
Medicaid	-0.06135 (0.00016)	-0.05616 (0.00016)
Median income	-0.00182 (0.00003)	-0.00150 (0.00003)
Quarter 2	-0.00377 (0.00015)	-0.00266 (0.00015)
Quarter 3	-0.00379 (0.00015)	-0.00193 (0.00015)
Quarter 4	-0.00249 (0.00015)	-0.00186 (0.00015)
Constant	-0.06371 (0.00062)	
Infectious diseases		-0.12874 (0.00041)
Neoplasms		-0.16166 (0.00071)
Endocrine		-0.15575 (0.00066)
Blood disorders		-0.16502 (0.00028)
Mental Illness		-0.13792 (0.00072)
Nervous system		0.06361 (0.00061)
Circulatory system		-0.12614 (0.00050)
Respiratory system		-0.12580 (0.00078)
Digestive system		-0.12474 (0.00080)
Genitourinary system		-0.11984 (0.00058)
Skin conditions		-0.10931 (0.00031)
Musculoskeletal conditions		-0.09270 (0.00036)
Injury and poisoning		-0.13905 (0.00037)
Signs/symptoms		-0.16559 (0.00026)
Const		0.08867 (0.00066)
N	6,224,072	6,224,072
Sample mean	0.05071	0.05071

Appendix B: Regression coefficients from model 2

	2018	
	β (SE)	
Outcome: 30-day revisit		
Age	0.00332 (0.00002)	0.00068 (0.00001)
Female	-0.03461 (0.00025)	-0.01000 (0.00012)
White	0.00535 (0.00058)	0.00050 (0.00029)
Black	-0.03950 (0.00068)	-0.01063 (0.00034)
Hispanic	-0.02650 (0.00100)	-0.00563 (0.00050)
Revisit	0.03259 (0.00086)	0.00671 (0.00043)
Heart attack	0.00931 (0.00048)	-0.00198 (0.00024)
Alzheimer's	0.01391 (0.00034)	0.00143 (0.00017)
Atrial fibrillation	0.04550 (0.00029)	0.00946 (0.00014)
Chronic kidney disease	0.06466 (0.00031)	0.00422 (0.00015)
COPD	0.07377 (0.00031)	0.00925 (0.00016)
Congestive heart failure	0.01765 (0.00027)	0.00197 (0.00014)
Diabetes	0.02576 (0.00103)	0.01575 (0.00051)
Hip fracture	-0.01451 (0.00027)	-0.00100 (0.00014)
Ischemic heart disease	-0.01416 (0.00028)	-0.00228 (0.00014)
Depression	-0.00845 (0.00041)	0.00108 (0.00021)
Osteoporosis	0.00653 (0.00045)	0.00487 (0.00023)
Stroke	0.04277 (0.00027)	0.00990 (0.00014)
Anemia	-0.03758 (0.00045)	-0.01005 (0.00022)
Asthma	0.00354 (0.00036)	-0.00022 (0.00018)
Cancer	0.01300 (0.00094)	-0.00044 (0.00047)
Medicaid	-0.06785 (0.00035)	-0.01367 (0.00017)
Median income	-0.00384 (0.00007)	-0.00075 (0.00003)
Quarter 2	-0.01110 (0.00033)	-0.00308 (0.00016)
Quarter 3	-0.01755 (0.00033)	-0.00342 (0.00016)
Quarter 4	-0.00139 (0.00033)	0.00301 (0.00016)
Constant	0.10829 (0.00134)	
Infectious diseases		-0.00104 (0.00045)
Neoplasms		0.00094 (0.00078)
Endocrine		-0.02993 (0.00073)
Blood disorders		-0.73413 (0.00031)
Mental Illness		-0.21199 (0.00080)
Nervous system		0.00128 (0.00067)
Circulatory system		-0.00357 (0.00055)
Respiratory system		-0.00148 (0.00086)
Digestive system		-0.03762 (0.00088)
Genitourinary system		-0.00390 (0.00064)
Skin conditions		-0.00101 (0.00034)
Musculoskeletal conditions		-0.00008 (0.00039)
Injury and poisoning		0.00261 (0.00040)
Signs/symptoms		-0.95192 (0.00029)
Const		0.94565 (0.00073)
N	.6,224,072	.6,224,072
Sample mean	0.37205	0.37205