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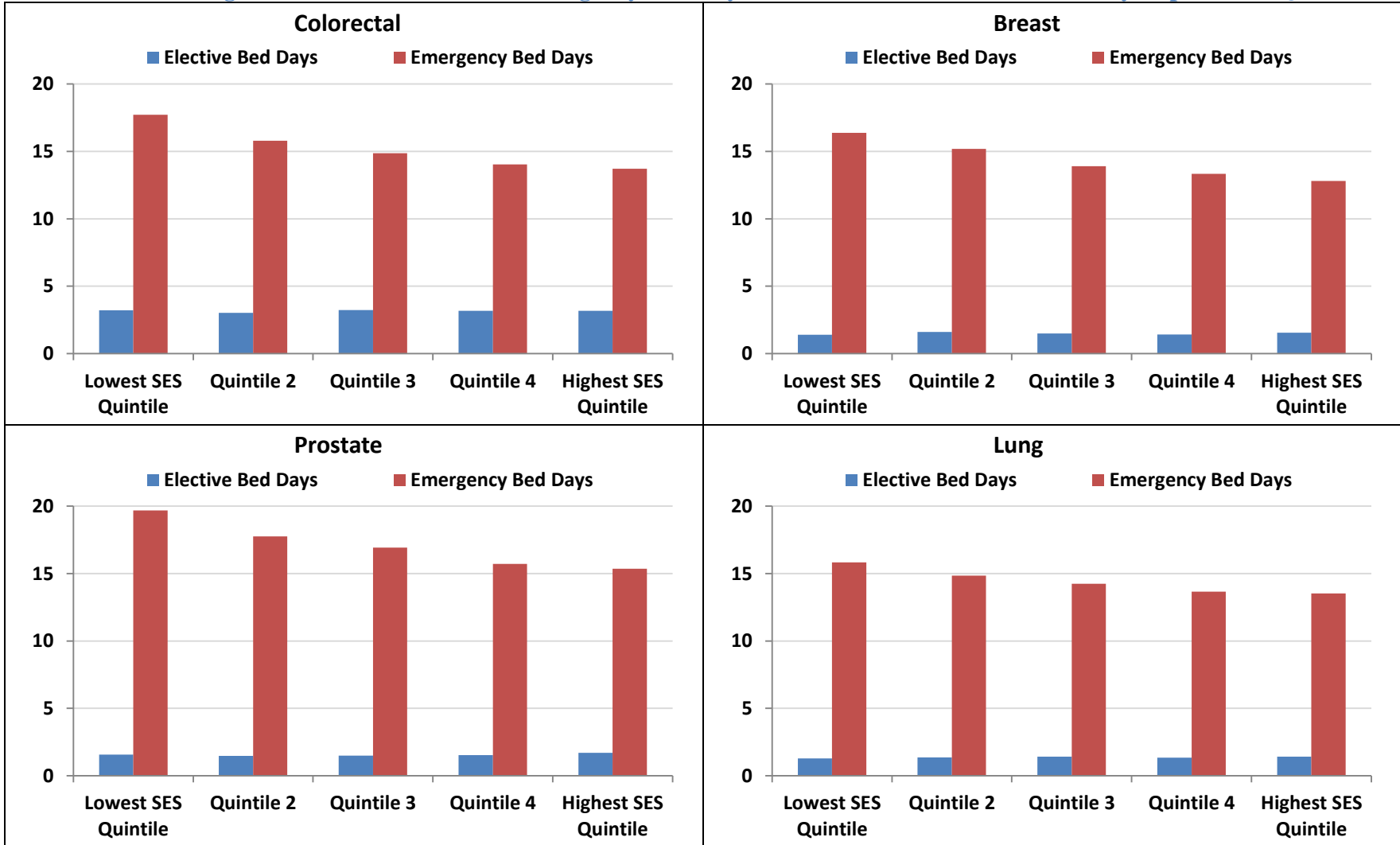
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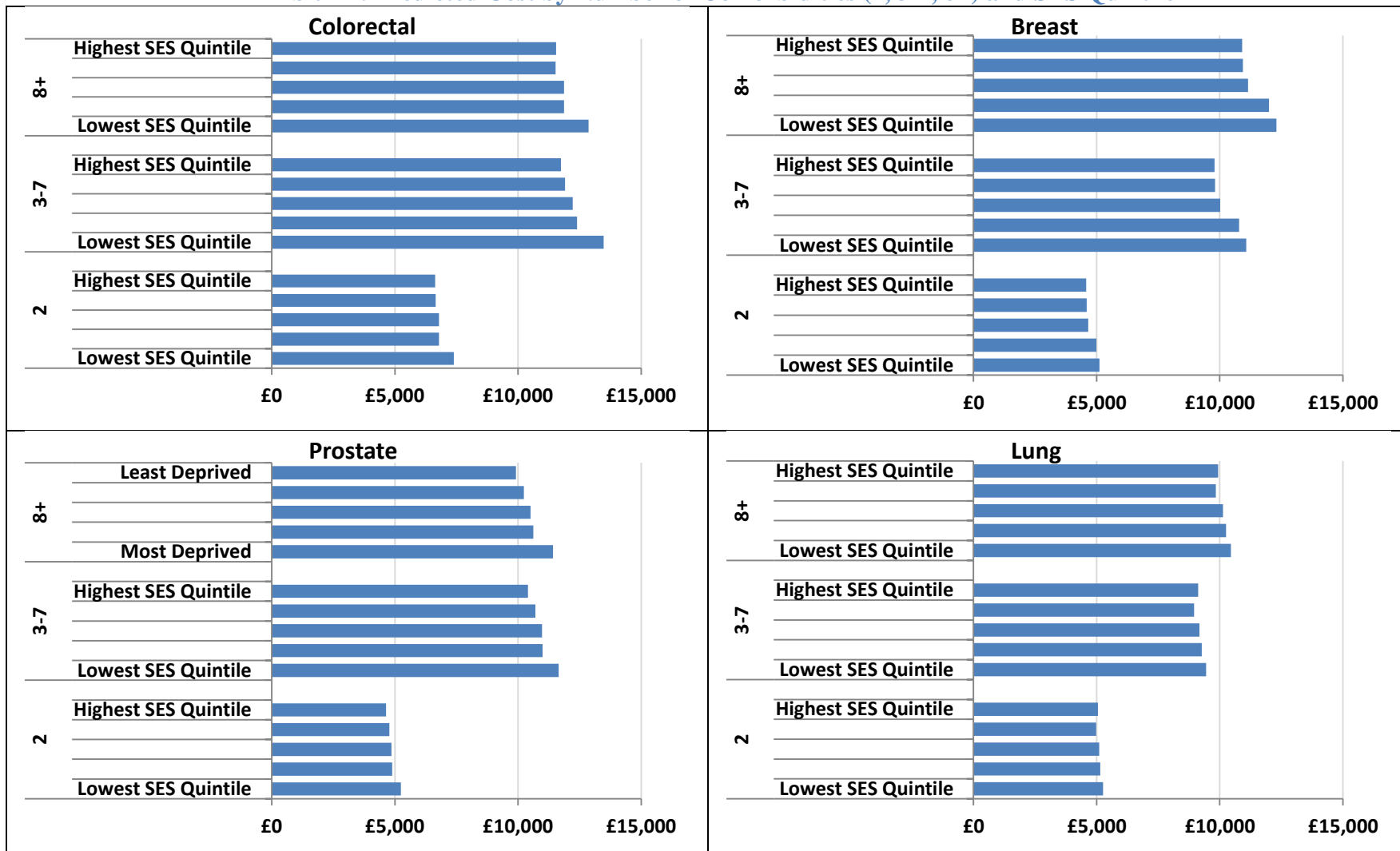
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**Exhibit A1: Average Number of Elective and Emergency Bed Days in Last Six Months: Partitioned by Deprivation Quintiles.**



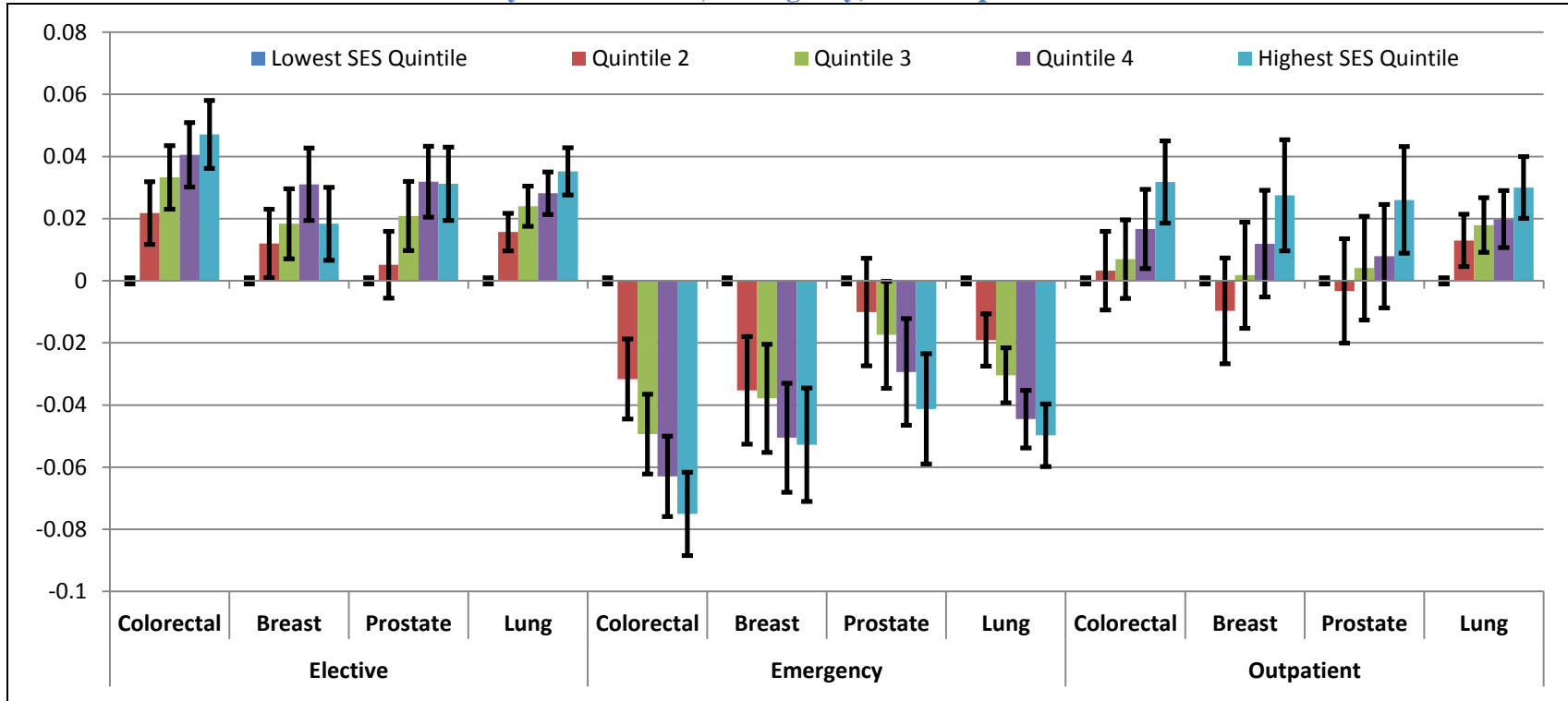
Source: (Authors' analysis)

Exhibit A2: Predicted Cost by Number of Comorbidities (2, 3-7, 8+) and SES Quintile



Source: (Authors' analysis)

**Exhibit A3: Probability of an Elective, Emergency, and Outpatient Visit in Last Month of Life**



Source: (Authors' analysis)

**Exhibit A4: Top 5 Healthcare Resource Group (HRGs) in the Last 6 Months of Life**

	<b>Lowest SES Quintile</b>	<b>Quintile 2</b>	<b>Quintile 3</b>	<b>Quintile 4</b>	<b>Highest SES Quintile</b>
<b>Colorectal</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	28.07%	30.73%	31.31%	33.14%	30.72%
Malignant Large Intestinal Disorders LOS 0 days	12.50%	13.33%	12.62%	12.87%	14.75%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less	5.99%	5.68%	6.03%	5.92%	6.15%
Vascular Access except for Renal Replacement Therapy W/O CC	4.37%	4.40%	5.23%	5.08%	5.42%
Malignant Large Intestinal Disorders W LOS 1 day or more W/O Major CC	N/A	3.43%	3.61%	2.95%	3.35%
	<b>Emergency</b>				
Malignant Large Intestinal Disorders W LOS 1 day or more W/O Major CC	7.95%	8.18%	8.10%	8.37%	8.39%
Malignant Large Intestinal Disorders W LOS 0 days	6.79%	6.65%	6.54%	6.28%	6.12%
Malignant Large Intestinal Disorders W LOS 1 day or more W Major CC	6.41%	6.85%	7.10%	7.07%	6.76%
Non-Malignant General Abdominal Disorders W LOS 0 days	3.30%	2.94%	3.12%	3.29%	3.13%
Malignant General Abdominal Disorders W LOS 1 day or more W/O Major CC	2.33%	2.42%	2.50%	2.38%	2.67%
<b>Breast</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	40.29%	40.50%	40.88%	42.33%	40.14%
Malignant Breast Disorders W Intermediate CC	9.54%	9.10%	9.21%	10.28%	9.19%
Malignant Breast Disorders W/O CC	9.50%	9.05%	8.80%	7.57%	10.94%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less and	5.46%	5.34%	6.07%	5.84%	5.04%

Chronic Kidney Disease W LOS 1 day or less associated W Renal Dialysis	5.57%	4.48%	N/A	N/A	N/A
	<b>Emergency</b>				
Malignant Breast Disorders W Major CC	9.58%	9.74%	9.11%	9.39%	9.21%
Malignant Breast Disorders W Intermediate CC	5.82%	5.66%	5.67%	5.43%	5.85%
Lobar, Atypical or Viral Pneumonia W Major CC	3.35%	3.26%	3.42%	4.09%	4.10%
Pleural Effusion W Major CC	3.63%	3.24%	3.11%	2.88%	2.71%
Brain Tumours or Cerebral Cysts W CC	2.61%	2.71%	2.49%	2.57%	2.90%
<b>Prostate</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	13.33%	17.88%	16.88%	19.03%	20.65%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less and	10.20%	13.97%	15.19%	15.93%	15.85%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	14.77%	14.08%	13.61%	12.94%	15.73%
Chronic Kidney Disease W LOS 1 day or less associated W Renal Dialysis	19.85%	6.86%	13.00%	10.40%	3.62%
Bladder Intermediate Endoscopic Procedure	2.91%	3.44%	2.96%	N/A	N/A
	<b>Emergency</b>				
Kidney, Urinary Tract and Prostate Neoplasms W LOS 2 days or more W Intermediate CC	5.30%	5.30%	5.85%	5.76%	5.86%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	5.16%	5.02%	5.06%	4.83%	4.65%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 2 days or more W Major CC	3.77%	4.36%	4.34%	4.52%	4.68%
Lobar, Atypical or Viral Pneumonia W Major CC	4.39%	3.98%	4.15%	3.62%	3.54%
Non interventional acquired cardiac conditions	2.79%	2.79%	2.60%	2.31%	2.74%
<b>Lung</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	34.09%	34.81%	35.81%	35.37%	34.51%
Fibre optic Bronchoscopy	11.81%	11.00%	10.78%	10.42%	10.26%
Respiratory Neoplasms W/O CC	8.88%	9.19%	9.03%	9.56%	9.79%
Respiratory Neoplasms W Major CC	6.20%	6.75%	6.42%	6.54%	7.55%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less and	5.98%	6.01%	6.13%	6.62%	6.28%
	<b>Emergency</b>				

Respiratory Neoplasms W Major CC	20.50%	21.35%	21.40%	21.22%	21.28%
Respiratory Neoplasms W CC	8.00%	8.08%	8.32%	8.17%	8.18%
Lobar, Atypical or Viral Pneumonia W Major CC	5.70%	5.40%	5.11%	4.95%	4.50%
Respiratory Neoplasms W/O CC	2.65%	2.94%	3.28%	3.04%	3.79%
Non interventional acquired cardiac conditions	3.10%	2.91%	2.86%	2.72%	N/A

Source: (Authors' analysis)

**Exhibit A5: Top 5 Healthcare Resource Group (HRGs) in the Last Month of Life**

	<b>Lowest SES Quintile</b>	<b>Quintile 2</b>	<b>Quintile 3</b>	<b>Quintile 4</b>	<b>Highest SES Quintile</b>
<b>Colorectal</b>					
	<b>Elective</b>				
Same day Chemotherapy admission/attendance	16.55%	17.28%	18.08%	20.66%	18.38%
Malignant Large Intestinal Disorders W LOS 0 days	9.50%	9.00%	9.93%	10.13%	10.87%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less	6.34%	7.08%	8.02%	6.82%	8.05%
Malignant Large Intestinal Disorders W LOS 1 day or more W/O Major CC	5.56%	6.68%	6.52%	5.42%	6.25%
Planned Procedures not carried out	N/A	3.91%	3.70%	N/A	3.28%
	<b>Emergency</b>				
Malignant Large Intestinal Disorders W LOS 1 day or more W Major CC	9.24%	9.36%	9.81%	9.96%	9.27%
Malignant Large Intestinal Disorders W LOS 1 day or more W/O Major CC	8.92%	9.41%	9.49%	9.78%	9.69%
Malignant Large Intestinal Disorders W LOS 0 days	8.73%	8.16%	8.39%	7.64%	7.56%
Non-Malignant General Abdominal Disorders W LOS 0 days	3.05%	2.57%	2.54%	2.80%	2.74%
Lobar, Atypical or Viral Pneumonia W Major CC	2.77%	2.81%	2.63%	2.41%	2.47%
<b>Breast</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	29.11%	28.73%	26.75%	30.04%	28.67%
Malignant Breast Disorders W Intermediate CC	11.10%	9.82%	10.81%	10.36%	10.39%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less	6.34%	7.53%	7.18%	6.98%	6.61%
Malignant Breast Disorders W/O CC	6.48%	7.33%	6.19%	7.58%	9.30%
Malignant Breast Disorders W Major CC	N/A	4.65%	6.31%	4.91%	4.81%
	<b>Emergency</b>				
Malignant Breast Disorders W Major CC	12.45%	12.57%	11.48%	11.83%	11.35%



Malignant Breast Disorders W Intermediate CC	6.57%	6.69%	6.75%	6.36%	6.52%
Lobar, Atypical or Viral Pneumonia W Major CC	5.24%	4.45%	4.44%	4.14%	3.90%
Pleural Effusion W Major CC	3.75%	3.14%	3.71%	4.20%	4.14%
Brain Tumours or Cerebral Cysts W CC	2.42%	2.56%	2.54%	2.93%	2.93%
<b>Prostate</b>					
	<b>Elective</b>				
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less	10.61%	15.88%	18.52%	19.81%	17.63%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	13.57%	11.52%	9.74%	10.36%	13.15%
Same day Chemotherapy admission	9.41%	10.75%	9.59%	11.20%	10.56%
Chronic Kidney Disease W LOS 1 day or less associated W Renal Dialysis	18.27%	7.55%	8.71%	8.41%	N/A
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	4.60%	4.07%	4.80%	4.53%	4.94%
	<b>Emergency</b>				
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	5.48%	5.94%	6.28%	6.10%	6.79%
Lobar, Atypical or Viral Pneumonia W Major CC	6.43%	5.78%	6.11%	5.53%	5.34%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 1 day or less	6.29%	6.16%	6.04%	5.75%	5.34%
Kidney, Urinary Tract and Prostate Neoplasms W LOS 2 days or more W Major CC	5.05%	6.02%	5.67%	6.18%	6.51%
Non-Transient Stroke or Cerebrovascular Accident, Nervous system infections or Encephalopathy W CC	N/A	N/A	2.22%	2.24%	2.32%
<b>Lung</b>					
	<b>Elective</b>				
Same day Chemotherapy admission	23.44%	22.49%	23.58%	22.76%	23.13%
Respiratory Neoplasms W Major CC	11.39%	12.73%	12.55%	12.38%	13.63%
Fibre optic Bronchoscopy	12.19%	12.20%	11.71%	10.25%	10.42%
Respiratory Neoplasms W/O CC	7.84%	9.28%	9.10%	9.55%	8.87%
Single Plasma Exchange, Leucopheresis or Red Cell Exchange W LOS 2 days or less	N/A	5.94%	5.95%	7.29%	6.60%
	<b>Emergency</b>				
Respiratory Neoplasms W Major CC	26.80%	28.15%	27.77%	27.40%	28.08%

Respiratory Neoplasms W CC	8.87%	8.86%	9.27%	9.04%	9.06%
Lobar, Atypical or Viral Pneumonia W Major CC	7.07%	6.75%	6.55%	6.32%	5.43%
Respiratory Neoplasms W/O CC	2.89%	3.26%	3.70%	3.26%	3.88%
Pleural Effusion W Major CC	N/A	N/A	2.58%	2.76%	2.80%

Source: (Authors' analysis)

## Regressions from Exhibit 2

Colorectal

Variable	Cost of End of Life Care	
	Marginal Effect	Standard Error
Socioeconomic Group		
Lowest SES Quantile	Reference	Reference
2	-£507***	150
3	-£293*	151
4	-£486***	151
Highest SES Quantile	-£456***	156
Age at Diagnosis	£18	30
Age at Diagnosis Squared	-£1***	0
Days from Diagnosis to Death	-£5***	0
Days from Diagnosis to Death Squared	£0***	0
Sex		
Male	Reference	Reference
Female	£216**	93
Year of Diagnosis		
2001	Reference	Reference
2002	£795	2414
2003	£839	2393
2004	£645	2389
2005	£828	2389
2006	£1,885	2390
2007	£1,763	2391
2008	£1,648	2392
2009	£1,859	2393
2010	£1,584	2394
Weighted Charlson Score		
Score = 2	Reference	Reference
Score = 3	£5,887***	206
Score = 4	£7,425***	337
Score = 5	£9,100***	555
Score = 6	£3,282***	191
Score = 7	£3,704***	338
Score = 8	£3,845***	111
Score = 9	£4,630***	175
Score = 10	£6,298***	331

Score = 11	£7,469***	571
Score = 12	£8,106***	1084
Score = 13	£6,866***	2133
Score = 14	£6,953*	3749
Score = 15	£3,324	3933
Region		
London	Reference	Reference
North East	-£1,357***	233
North West	-£1,510***	187
Yorkshire & Humber	-£745***	201
East Midlands	-£1,412***	209
West Midlands	-£906***	197
East of England	-£2,475***	195
South East	-£2,303***	210
South Central	-£1,860***	225
South West	-£1,854***	199
Log Likelihood	-672,785	
Observations	66,061	

Source: (Authors' analysis)

## Breast

Variable	Cost of End of Life Care	
	Marginal Effect	Standard Error
Socioeconomic Group		
Lowest SES Quantile	Reference	Reference
2	£41	191
3	-£40**2	187
4	-£512***	188
Highest SES Quantile	-£526***	194
Age at Diagnosis	£10	29
Age at Diagnosis Squared	£0	0
Days from Diagnosis to Death	-£1***	0
Days from Diagnosis to Death Squared	£0***	0
Year of Diagnosis		
2001	Reference	Reference
2002	£126	1528
2003	£249	1510
2004	£905	1510
2005	£1,006	1510
2006	£1,672	1512
2007	£1,601	1516
2008	£1,577	1520
2009	£1,488	1525
2010	£1,696	1538
Weighted Charlson Score		
Score = 2	Reference	Reference
Score = 3	£5,714***	275
Score = 4	£5,968***	402
Score = 5	£7,098***	686
Score = 6	£4,720***	227
Score = 7	£5,538***	427
Score = 8	£5,803***	162
Score = 9	£6,464***	287
Score = 10	£7,359***	542
Score = 11	£9,184***	945
Score = 12	£4,887***	1309
Score = 13	£4,666**	2126
Score = 14	£3,136	5918
Score = 15	£3,715	6344

Region		
London	Reference	Reference
North East	-£1,368	302
North West	-£1,105	233
Yorkshire & Humber	-£1,355	248
East Midlands	-£1,599	261
West Midlands	-£721	246
East of England	-£2,393	242
South East	-£2,194	260
South Central	-£1,977	272
South West	-£1,104	245
Log Likelihood	-365,877	
Observations	36,698	

Source: (Authors' analysis)

## Prostate

Variable	Cost of End of Life Care	
	Marginal Effect	Standard Error
Socioeconomic Group		
Lowest SES Quantile	Reference	Reference
2	-£320	197
3	-£208	196
4	-£373*	195
Highest SES Quantile	-£564***	201
Age at Diagnosis	-£171**	73
Age at Diagnosis Squared	£1**	0
Days from Diagnosis to Death	-£2***	0
Days from Diagnosis to Death Squared	£0***	0
Year of Diagnosis		
2001	Reference	Reference
2002	£1,276	2193
2003	£1,597	2177
2004	£1,657	2175
2005	£1,821	2175
2006	£2,237	2176
2007	£2,341	2179
2008	£2,592	2182
2009	£2,376	2185
2010	£2,020	2193
Weighted Charlson Score		
Score = 2	Reference	Reference
Score = 3	£6,256***	223
Score = 4	£7,724***	269
Score = 5	£7,986***	350
Score = 6	£6,742***	365
Score = 7	£6,741***	590
Score = 8	£5,754***	173
Score = 9	£6,506***	216
Score = 10	£7,880***	272
Score = 11	£8,641***	386
Score = 12	£8,693***	656
Score = 13	£7,577***	1187
Score = 14	£9,106***	2861
Score = 15	£10,313**	4320

Region		
London	Reference	Reference
North East	-£1,238***	312
North West	-£1,120***	244
Yorkshire & Humber	-£1,169***	258
East Midlands	-£1,386***	264
West Midlands	-£821***	256
East of England	-£2,131***	245
South East	-£2,299***	271
South Central	-£1,745***	281
South West	-£1,179***	247
Log Likelihood	-393,424	
Observations	39,329	

Source: (Authors' analysis)



## Lung

Variable	Cost of End of Life Care	
	Marginal Effect	Standard Error
Socioeconomic Group		
Lowest SES Quantile	Reference	Reference
2	£13	72
3	£87	76
4	-£81	79
Highest SES Quantile	£60	86
Age at Diagnosis	-£181***	23
Age at Diagnosis Squared	£1***	0
Days from Diagnosis to Death	-£3***	0
Days from Diagnosis to Death Squared	£0***	0
Sex		
Male	Reference	Reference
Female	£34	50
Year of Diagnosis		
2001-2005	Reference	Reference
2006	£1,022***	131
2007	£758***	129
2008	£772***	131
2009	£1,130***	135
2010	£910***	140
Weighted Charlson Score		
Score = 2	Reference	Reference
Score = 3	£3,624***	79
Score = 4	£4,707***	140
Score = 5	£6,047***	262
Score = 6	£4,107***	165
Score = 7	£4,559***	254
Score = 8	£4,302***	66
Score = 9	£4,952***	90
Score = 10	£5,571***	165
Score = 11	£6,481***	313
Score = 12	£7,437***	585
Score = 13	£5,347***	971
Score = 14	£10,055***	2615
Score = 15	£5,448	4899
Region		

	Reference	Reference
London		
North East	-£983***	116
North West	-£974***	99
Yorkshire & Humber	-£1,124***	103
East Midlands	-£1,036***	113
West Midlands	-£896***	109
East of England	-£1,675***	109
South East	-£2,334***	119
South Central	-£1,149***	127
South West	-£1,249***	113
Log Likelihood	-1,163,832	
Observations	116,749	

Source: (Authors' analysis)

### Regressions from Exhibit 3

Colorectal

Variable	Probability of Elective		Cost of Elective Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	0.031***	0.006	-£280	189
3	0.050***	0.006	£72	192
4	0.061***	0.006	£111	192
Highest SES Quantile	0.072***	0.006	£182	200
Age at Diagnosis	0.016***	0.001	£135***	37
Age at Diagnosis Squared	0.000***	0.000	-£1***	0
Days from Diagnosis to Death	0.000***	0.000	£0	1
Days from Diagnosis to Death Squared	0.000**	0.000	£0**	0
Sex				
Male	Reference	Reference	Reference	Reference
Female	-0.044***	0.004	-£145	119
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	0.025	0.118	£2,232	3294
2003	0.041	0.117	£1,958	3236
2004	0.045	0.117	£1,750	3227
2005	0.020	0.117	£1,744	3225
2006	0.044	0.117	£2,386	3225
2007	0.047	0.117	£2,461	3226
2008	0.047	0.117	£2,058	3227
2009	0.054	0.117	£2,157	3228
2010	0.040	0.117	£1,987	3229
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.139***	0.007	£2,685***	295
Score = 4	0.145***	0.010	£4,305***	487
Score = 5	0.143***	0.015	£5,893***	819
Score = 6	0.166***	0.008	£190	243
Score = 7	0.095***	0.013	£358	435
Score = 8	0.250***	0.005	-£56	150
Score = 9	0.191***	0.007	£131	199
Score = 10	0.175***	0.011	£1,389***	355
Score = 11	0.170***	0.017	£2,803***	641
Score = 12	0.175***	0.030	£3,566***	1280
Score = 13	0.231***	0.064	£4,468*	2689
Score = 14	0.245**	0.113	£1,501	3396
Score = 15	0.277*	0.154	-£1,155	3208

Region				
London	Reference	Reference	Reference	Reference
North East	-0.003	0.009	-	293
			£1,096***	
North West	-0.052***	0.007	-£687***	240
Yorkshire & Humber	0.003	0.008	-£491*	253
East Midlands	-0.019**	0.008	-	264
			£1,375***	
West Midlands	-0.002	0.008	-£379	247
East of England	-0.041***	0.008	-	250
			£1,043***	
South East	-0.027***	0.008	-	268
			£1,007***	
South Central	-0.048***	0.009	-	290
			£1,146***	
South West	-0.035***	0.008	-£984***	255
Pseudo R2	0.113			
Prob > LR Chi2	0.000			
Observations	66,061		27,564	

Source: (Authors' analysis)

## Breast

Variable	Probability of Elective		Cost of Elective Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	0.017***	0.007	£468*	282
3	0.027***	0.007	-£251	268
4	0.046***	0.007	£29	271
Highest SES Quantile	0.029***	0.007	£55	283
Age at Diagnosis	0.009***	0.001	-£43	42
Age at Diagnosis Squared	0.000***	0.000	£0	0
Days from Diagnosis to Death	0.000	0.000	£0	1
Days from Diagnosis to Death Squared	0.000	0.000	£0	0
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	-0.023	0.067	-£886	2632
2003	-0.024	0.066	-£627	2612
2004	-0.010	0.066	-£50	2613
2005	-0.018	0.066	£134	2613
2006	0.003	0.066	£169	2616
2007	-0.017	0.066	£142	2622
2008	0.000	0.066	£329	2627
2009	0.007	0.066	£197	2634
2010	0.003	0.067	£821	2660
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.111***	0.010	£2,425***	514
Score = 4	0.098***	0.014	£1,516**	664
Score = 5	0.092***	0.021	£7,031***	1795
Score = 6	0.219***	0.009	£566*	289
Score = 7	0.144***	0.014	£339	486
Score = 8	0.309***	0.007	£903***	222
Score = 9	0.259***	0.010	£1,415***	330
Score = 10	0.219***	0.016	£2,037***	599
Score = 11	0.197***	0.024	£6,703	1418
Score = 12	0.150***	0.047	-£911	1227
Score = 13	0.079	0.074	-£604	2316

Score = 14	0.208	0.309	£3,404	12866
Score = 15	0.522**	0.223	-£3,952**	1872
Region				
London	Reference	Reference	Reference	Reference
North East	-0.027**	0.011	-£932**	432
North West	-0.075***	0.009	£415	343
Yorkshire & Humber	-0.029***	0.009	- £1,710***	354
East Midlands	-0.039***	0.010	- £1,878***	373
West Midlands	0.002	0.009	-£655*	346
East of England	-0.055***	0.009	- £1,29***6	351
South East	-0.041***	0.010	- £1,257***	381
South Central	-0.049***	0.010	- £1,328***	391
South West	-0.010	0.009	-£132	344
Pseudo R2	0.197			
Prob > LR Chi2	0.000			
Observations	36,698		27,564	

Source: (Authors' analysis)

Prostate

Variable	Probability of Elective		Cost of Elective Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	0.018**	0.008	-£549*	308
3	0.040***	0.008	-£142	302
4	0.044***	0.008	£1	300
Highest SES Quantile	0.051***	0.008	-£5	307
Age at Diagnosis	0.005*	0.003	-£46	96
Age at Diagnosis Squared	0.000***	0.000	£0	1
Days from Diagnosis to Death	0.000***	0.000	£0	1
Days from Diagnosis to Death Squared	0.000***	0.000	£0	0
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	0.083	0.097	£3,973	4207
2003	0.095	0.096	£4,124	4182
2004	0.107	0.096	£3,722	4177
2005	0.119	0.096	£4,088	4176
2006	0.130	0.096	£4,469	4179
2007	0.135	0.096	£4,358	4182
2008	0.133	0.096	£4,584	4185
2009	0.132	0.096	£3,890	4188
2010	0.105	0.096	£3,143	4198
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.100***	0.008	£1,229***	361
Score = 4	0.099***	0.010	£3,077***	441
Score = 5	0.095***	0.014	£2,771***	585
Score = 6	0.128***	0.014	£1,417**	547
Score = 7	0.103***	0.023	£273	898
Score = 8	0.214***	0.006	-£427*	251
Score = 9	0.153***	0.008	-£333	312
Score = 10	0.167***	0.010	£1,238***	379
Score = 11	0.134***	0.014	£2,559***	565
Score = 12	0.114***	0.025	£1,331	1006
Score = 13	0.135***	0.045	-£1,637	1712

Score = 14	0.197*	0.106	£1,301	3609
Score = 15	0.034	0.167	-£8,623	7203
Region				
London	Reference	Reference	Reference	Reference
North East	0.000	0.012	-£696	472
North West	0.015	0.010	-£375	369
Yorkshire & Humber	-0.026**	0.010	- £1,345***	404
East Midlands	0.000	0.010	- £1,262***	403
West Midlands	0.026***	0.010	£235	387
East of England	-0.011	0.010	-£665*	376
South East	-0.019*	0.011	-£1,031**	421
South Central	-0.015	0.011	-£394	431
South West	0.023**	0.010	-£153	372
Pseudo R2	0.081			
Prob > LR Chi2	0.000			
Observations	39,329		13,615	

Source: (Authors' analysis)



## Lung

Variable	Probability of Elective		Cost of Elective Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	0.025***	0.004	£256***	97
3	0.041***	0.004	£377***	103
4	0.054***	0.004	£196*	104
Highest SES Quantile	0.066***	0.005	£292**	114
Age at Diagnosis	0.022***	0.001	£11	31
Age at Diagnosis Squared	0.000***	0.000	£0*	0
Days from Diagnosis to Death	0.000***	0.000	£5***	0
Days from Diagnosis to Death Squared	0.000***	0.000	£0***	0
Sex				
Male	Reference	Reference	Reference	Reference
Female	-0.043***	0.003	-£166**	68
Year of Diagnosis				
2001-2005	Reference	Reference	Reference	Reference
2006	0.048***	0.009	£792***	195
2007	0.054***	0.009	£778***	193
2008	0.047***	0.009	£764***	194
2009	0.050***	0.009	£955***	198
2010	0.066***	0.009	£628***	203
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.078***	0.005	£1,187***	111
Score = 4	0.057***	0.007	£1,979***	205
Score = 5	0.040***	0.011	£3,785***	455
Score = 6	0.093***	0.009	£1,586***	221
Score = 7	0.009	0.012	£1,614***	364
Score = 8	0.170***	0.004	£1,241***	82
Score = 9	0.131***	0.005	£1,262***	105
Score = 10	0.107***	0.007	£1,519***	183
Score = 11	0.115***	0.013	£2,799***	394
Score = 12	0.072***	0.022	£5,156***	989
Score = 13	0.066	0.043	£106	825
Score = 14	0.013*	0.079	£15,468*	8,338

Score = 15	-0.047	0.200	£8,791	14,304
Region				
London	Reference	Reference	Reference	Reference
North East	-0.004	0.006	-£960***	157
North West	-0.012**	0.006	£0	134
Yorkshire & Humber	-0.027***	0.006	- £1,085***	142
East Midlands	-0.006	0.006	-£797***	151
West Midlands	0.020***	0.006	-£308**	144
East of England	-0.034***	0.006	-£734***	148
South East	-0.041***	0.007	- £1,448***	164
South Central	-0.009	0.007	-£259	170
South West	-0.006	0.006	-£462***	151
Pseudo R2	0.073			
Prob > LR Chi2	0.000			
Observations	116,749		52,122	

Source: (Authors' analysis)

## Regressions from Exhibit 4

Colorectal

Variable	Probability of Emergency		Cost of Emergency Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	-0.025***	0.005	-£506***	115
3	-0.036***	0.005	-£563***	115
4	-0.049***	0.005	-£754***	116
Highest SES Quantile	-0.061***	0.005	-£693***	121
Age at Diagnosis	-0.014***	0.001	-£63***	23
Age at Diagnosis Squared	0.000***	0.000	£0***	0
Days from Diagnosis to Death	0.000***	0.000	-£3***	0
Days from Diagnosis to Death Squared	0.000***	0.000	£0	0
Sex				
Male	Reference	Reference	Reference	Reference
Female	0.018***	0.003	£618***	72
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	-0.066	0.110	-£820	2360
2003	-0.040	0.109	-£659	2345
2004	-0.014	0.109	-£1,290	2342
2005	-0.010	0.109	-£1,025	2343
2006	0.008	0.109	-£709	2344
2007	0.008	0.109	-£982	2344
2008	0.020	0.109	-£1,068	2345
2009	0.017	0.109	-£827	2346
2010	0.018	0.109	-£987	2347
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.290***	0.006	£1,426***	153
Score = 4	0.328***	0.008	£1,914***	221
Score = 5	0.347***	0.011	£2,396***	331
Score = 6	0.314***	0.006	-£852***	138
Score = 7	0.378***	0.008	-£506***	220
Score = 8	0.335***	0.004	-£841***	94

Score = 9	0.380***	0.005	£28	126
Score = 10	0.397***	0.006	£862***	206
Score = 11	0.407***	0.009	£1,185***	327
Score = 12	0.417***	0.014	£1,408	596
Score = 13	0.333***	0.045	-£780	1015
Score = 14	0.290**	0.090	£2,642	2695
Score = 15	0.348**	0.107	£47	2772
Region				
London	Reference	Reference	Reference	Reference
North East	-0.002	0.008	-	175
North West	-0.017**	0.006	-£851***	141
Yorkshire & Humber	-0.004	0.007	-£780***	152
East Midlands	0.005	0.007	-£962***	157
West Midlands	-0.026***	0.007	-£912***	150
East of England	-0.050***	0.007	-	150
South East	-0.020***	0.007	-	161
South Central	-0.015**	0.008	-	173
South West	-0.038***	0.007	-	152

Source: (Authors' analysis)

## Breast

Variable	Probability of Emergency		Cost of Emergency Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	-0.020***	0.006	-£161	139
3	-0.025***	0.006	-£468***	137
4	-0.040***	0.006	-£501***	138
Highest SES Quantile	-0.034***	0.007	-£726***	141
Age at Diagnosis	-0.002**	0.001	£56***	22
Age at Diagnosis Squared	0.000***	0.000	£0	0
Days from Diagnosis to Death	0.000**	0.000	-£1*	0
Days from Diagnosis to Death Squared	0.000***	0.000	£0**	0
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	-0.025	0.060	£1,307	1108
2003	-0.012	0.059	£1,172	1087
2004	0.002	0.059	£1,391	1085
2005	0.022	0.059	£1,180	1084
2006	0.031	0.060	£1,477	1085
2007	0.026	0.060	£1,697	1088
2008	0.024	0.060	£1,476	1090
2009	0.020	0.060	£1,373	1093
2010	0.011	0.060	£1,596	1103
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.449***	0.007	£1,140***	172
Score = 4	0.483***	0.007	£1,532***	244
Score = 5	0.481***	0.010	£1,595***	371
Score = 6	0.411***	0.007	£70	150
Score = 7	0.470***	0.008	£1,121***	259
Score = 8	0.424***	0.006	£304**	118
Score = 9	0.464***	0.006	£871***	168
Score = 10	0.483***	0.008	£1,753***	299
Score = 11	0.478***	0.011	£1,333***	424
Score = 12	0.484***	0.020	£680	760
Score = 13	0.486***	0.032	£1,489	1401

Score = 14	0.449***	0.007	-£1,984	2554
Score = 15	0.483***	0.007	-£151	3612
Region				
London	Reference	Reference	Reference	Reference
North East	-0.013	0.011	-£776***	217
North West	-0.009	0.008	-£705***	167
Yorkshire & Humber	-0.008	0.009	-£790***	178
East Midlands	0.001	0.009	-£783***	187
West Midlands	-0.018**	0.009	-£701***	178
East of England	-0.046***	0.008	-	176
South East	-0.032***	0.009	£1,314***	191
South Central	-0.033***	0.009	-£939***	200
South West	-0.054***	0.008	-	179
Pseudo R2	0.216			
Prob > LR Chi2	0.000			
Observations	36,698		13,067	

Source: (Authors' analysis)

Prostate

Variable	Probability of Emergency		Cost of Emergency Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	-0.010	0.006	-£291**	141
3	-0.021***	0.006	-£318**	141
4	-0.027***	0.006	-£569***	141
Highest SES Quantile	-0.032***	0.006	-£701***	145
Age at Diagnosis	-0.011***	0.002	£47	54
Age at Diagnosis Squared	0.000***	0.000	£0	0
Days from Diagnosis to Death	0.000***	0.000	-£1	0
Days from Diagnosis to Death Squared	0.000***	0.000	£0	0
Year of Diagnosis				
2001	Reference	Reference	Reference	Reference
2002	0.038	0.060	-£617	1643
2003	0.037	0.060	-£355	1631
2004	0.056	0.060	-£251	1629
2005	0.046	0.060	-£240	1629
2006	0.049	0.060	-£151	1629
2007	0.053	0.060	-£55	1632
2008	0.052	0.060	£194	1634
2009	0.050	0.060	£207	1636
2010	0.039	0.061	£309	1641
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.323***	0.007	£1,325***	155
Score = 4	0.367***	0.010	£2,129***	181
Score = 5	0.383***	0.015	£2,455***	233
Score = 6	0.313***	0.012	£1,458***	249
Score = 7	0.331***	0.021	£1,924***	398
Score = 8	0.292***	0.004	£587***	127
Score = 9	0.377***	0.007	£1,407***	150
Score = 10	0.405***	0.011	£2,141***	182
Score = 11	0.413***	0.017	£2,680***	255
Score = 12	0.491***	0.044	£3,083***	429
Score = 13	0.490***	0.080	£2,772***	775

Score = 14	-	-	£3,019	1857
Score = 15	-	-	£6,125**	2803
Region				
London	Reference	Reference	Reference	Reference
North East	-0.011	0.010	- £1,191***	223
North West	-0.011	0.008	- £1,080***	176
Yorkshire & Humber	0.006	0.008	- £1,037***	186
East Midlands	-0.007	0.008	- £1,295***	190
West Midlands	-0.017**	0.008	- £1,291***	186
East of England	-0.042***	0.007	- £1,648***	178
South East	-0.023***	0.008	- £1,785***	197
South Central	-0.021**	0.008	- £1,521***	205
South West	-0.038***	0.007	- £1,815***	179
Pseudo R2	0.266			
Prob > LR Chi2	0.000		-309,771	
Observations	39,329		31,192	

Source: (Authors' analysis)

Lung

	Probability of	Cost of Emergency
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Variable	Emergency		Care	
	Marginal Effect	Standard Error	Marginal Effect	Standard Error
Socioeconomic Group				
Lowest SES Quantile	Reference	Reference	Reference	Reference
2	-0.013***	0.003	-£178***	55
3	-0.017***	0.003	-£259***	58
4	-0.024***	0.003	-£434***	59
Highest SES Quantile	-0.033***	0.004	-£333***	65
Age at Diagnosis	-0.011***	0.001	-£142***	17
Age at Diagnosis Squared	0.000***	0.000	£1***	0
Days from Diagnosis to Death	0.000***	0.000	-£2***	0
Days from Diagnosis to Death Squared	0.000***	0.000	£0***	0
Sex				
Male	Reference	Reference	Reference	Reference
Female	0.001	0.002	£359***	38
Year of Diagnosis				
2001-2005	Reference	Reference	Reference	Reference
2006	0.005	0.005	£306***	112
2007	-0.002	0.005	-£89	110
2008	0.005	0.005	-£120	111
2009	0.006	0.005	£138	114
2010	-0.002	0.006	£29	118
Weighted Charlson Score				
Score = 2	Reference	Reference	Reference	Reference
Score = 3	0.338***	0.003	£841***	59
Score = 4	0.358***	0.004	£1,586***	95
Score = 5	0.369***	0.005	£2,187***	164
Score = 6	0.302***	0.006	£1,235***	115
Score = 7	0.364***	0.006	£1,622***	169
Score = 8	0.338***	0.003	£755***	50
Score = 9	0.370***	0.003	£1,452***	63
Score = 10	0.386***	0.004	£1,924***	106
Score = 11	0.388***	0.005	£2,039***	183
Score = 12	0.386***	0.008	£2,364***	327
Score = 13	0.373***	0.019	£2,554***	667
Score = 14	-	-	£2,369**	1188
Score = 15	-	-	-£1,905	1467
Region				

London	Reference	Reference	Reference	Reference
North East	-0.018***	0.005	-£400	86
North West	-0.037***	0.004	-£797	74
Yorkshire & Humber	-0.011**	0.004	-£511	77
East Midlands	-0.025***	0.005	-£509	84
West Midlands	-0.027***	0.004	-£756	81
East of England	-0.045***	0.004	-£793	82
South East	-0.019***	0.005	-£1,356	89
South Central	-0.025***	0.005	-£892	96
South West	-0.049***	0.005	-£931	85
Pseudo R2	0.204			
Prob > LR Chi2	0.000			
Observations	116,749		95,427	

Source: (Authors' analysis)