

**Appendices.** These appendices are part of the submitted manuscript and have been peer reviewed. They are posted as supplied by the authors.

### Appendix 1. Hospital patient recruitment per year

Year	Hospital					Total
	A	B	C	D	E	
2007	1,812	0	1,399	904	0	4,115
2008	1,688	0	1,299	980	0	3,967
2009	1,801	4	1,224	1,138	0	4,167
2010	1,871	1,952	1,246	1,184	0	6,253
2011	2,077	1,916	1,261	1,232	834	7,320
2012	2,250	1,756	1,344	1,246	888	7,484
Total	11,499	5,628	7,773	6,684	1,722	33,306

### Appendix 2. Distribution of patients by insurance category with respect to individual hospitals

Insurance Group	Hospital					Total
	A	B	C	D	E	
Public	8,296 (72.1%)	4,437 (78.8%)	5,873 (75.6%)	6,052 (90.5%)	1,602 (93.0%)	26,260 (78.8%)
Privately Insured	1,222 (10.6%)	1,093 (19.4%)	1,555 (20.0%)	485 (7.2%)	96 (5.6%)	4,451 (13.4%)
Transport Accident Commission	1,582 (13.7%)	54 (0.9%)	65 (0.8%)	0 (0%)	0 (0%)	1,701 (5.1%)
Veterans Affairs	105 (0.9%)	10 (0.2%)	244 (3.1%)	62 (0.9%)	0 (0%)	421 (1.3%)
Work Cover	198 (1.7%)	8 (0.1%)	6 (0.1%)	14 (0.2%)	3 (0.2%)	229 (0.7%)
Other	96 (0.8%)	26 (0.5%)	30 (0.4%)	71 (1.1%)	21 (1.2%)	244 (0.7%)
Total patients	11,499	5,628	7,773	6,684	1,722	33,306 (100%)

### Appendix 3. Distribution of patients with respect to diagnostic categories

Diagnosis	Public Patients	Privately Insured	Trauma Accident Commission	Veteran's Affairs	Work Cover	Other Compensable Groups	Total Compensable	Overall Total
Abdominal & Thoracic Aneurysm	595 (2.3%)	93 (2.1%)	1 (0.1%)	12 (2.8%)	0 (0%)	3 (1.2%)	109 (1.5%)	704 (2.1%)
Asthma	165 (0.6%)	44 (1.0%)	0 (0%)	0 (0%)	1 (0.4%)	1 (0.4%)	46 (0.6%)	211 (0.6%)
Intracranial Haemorrhage	686 (2.6%)	107 (2.4%)	40 (2.3%)	14 (3.3%)	3 (1.2%)	16 (6.6%)	180 (2.5%)	866 (2.6%)
Burns	257 (1.0%)	8 (0.2%)	6 (0.3%)	2 (0.5%)	31 (13.5%)	6 (2.5%)	53 (0.7%)	310 (0.9%)
CAGS	4,256 (16.2%)	688 (15.5%)	3 (0.2%)	42 (9.9%)	1 (0.4%)	25 (10.2%)	759 (10.8%)	5,015 (15.1%)
CAGS and Valve	1,065 (4.1%)	180 (4.0%)	2 (0.1%)	25 (5.9%)	0 (0%)	4 (1.6%)	211 (3.0%)	1,276 (3.8%)
Cardiac Arrest	882 (3.4%)	115 (2.6%)	13 (0.8%)	14 (3.3%)	5 (2.2%)	14 (5.7%)	161 (2.3%)	1,043 (3.1%)
Gastro-intestinal Disorders	789 (3.0%)	148 (3.3%)	13 (0.8%)	10 (2.4%)	0 (0%)	7 (2.9%)	178 (2.5%)	967 (2.9%)
Haematology Disorders	142 (0.5%)	50 (1.1%)	1 (0.1%)	0 (0%)	0 (0%)	1 (0.4%)	52 (0.7%)	194 (0.6%)
Head Injury	505 (1.9%)	53 (1.2%)	629 (37.0%)	8 (1.9%)	56 (24.4%)	10 (4.1%)	756 (10.7%)	1,261 (3.8%)
Cardiac Failure	976 (3.7%)	144 (3.2%)	3 (0.2%)	25 (5.9%)	4 (1.7%)	12 (4.9%)	188 (2.7%)	1,164 (3.5%)
Metabolic Disorders	448 (1.7%)	61 (1.4%)	2 (0.1%)	1 (0.2%)	0 (0%)	4 (1.6%)	68 (1.0%)	516 (1.5%)
Orthopaedic Disorders	361 (1.4%)	61 (1.4%)	12 (0.7%)	14 (3.3%)	3 (1.3%)	0 (0%)	90 (1.3%)	451 (1.3%)
Other Diagnoses	504 (1.9%)	89 (2.0%)	1 (0.1%)	3 (0.7%)	10 (4.4%)	9 (3.7%)	112 (1.6%)	616 (1.8%)
Other Cardiothoracic Operations	1,996	405	7	31	1	12	456	2,452

	(7.6%)	(9.1%)	(0.4%)	(7.4%)	(0.4%)	(4.9%)	(6.5%)	(7.4%)
	518	92	5	11	0	8	116	634
Other Cardiovascular Disorders	(2.0%)	(2.1%)	(0.3%)	(2.6%)	(0%)	(3.2%)	(1.6%)	(1.9%)
	890	180	12	7	1	16	216	1,106
Other Neurological Disorders	(3.4%)	(4.0%)	(0.7%)	(1.7%)	(0.4%)	(6.6%)	(3.1%)	(3.3%)
	1,611	238	30	33	4	14	319	1,930
Other Respiratory Disorders	(6.1%)	(5.3%)	(1.8%)	(7.8%)	(1.7%)	(5.7%)	(4.5%)	(5.8%)
	839	66	3	1	2	3	75	914
Drug Overdose	(3.2%)	(1.5%)	(0.2%)	(0.2%)	(0.9%)	(1.2%)	(1.1%)	(2.7%)
	940	158	10	15	0	18	201	1,141
Pneumonia	(3.6%)	(3.5%)	(0.6%)	(3.6%)	(0%)	(7.4%)	2.8%)	(3.4%)
Post-operative Gastro-intestinal Conditions	2,433	556	15	67	3	7	648	3,081
	(9.3%)	(12.5%)	(0.9%)	(16.0%)	(1.3%)	(2.9%)	(9.2%)	(9.2%)
	386	61	2	8	1	3	75	461
Renal Disorders	(1.5%)	(1.4%)	(0.1%)	(1.9%)	(0.4%)	(1.2%)	(1.1%)	(1.4%)
	355	58	0	3	0	1	62	417
Genito-urinary Disorders	(1.3%)	(1.3%)	(0%)	(0.7%)	(0%)	(0.4%)	(0.9%)	(1.2%)
	382	84	3	8	0	5	100	482
Sub-arachnoid Haemorrhage	(1.4%)	(1.9%)	(0.2%)	(1.9%)	(0%)	(2.0%)	(1.4%)	(1.4%)
	349	62	3	3	2	6	76	425
Seizures	(1.3%)	(1.4%)	(0.2%)	(0.7%)	(0.9%)	(2.5%)	(1.1%)	(1.3%)
	1,483	304	5	29	7	16	361	1,844
Sepsis and Septic Shock	(5.6%)	(6.8%)	(0.3%)	(6.9%)	(3.1%)	(6.6%)	(5.1%)	(5.5%)
	595	97	863	12	92	20	1084	1,679
Trauma (excluding head injuries)	(2.3%)	(2.2%)	(50.8%)	(2.8%)	(40.2%)	(8.2%)	(15.4%)	(5.0%)
	1,590	205	0	14	2	1	222	1,812
Cardiac Valve Operations	(6.0%)	(4.6%)	(0%)	(3.3%)	(0.9%)	(0.4%)	(3.1%)	5.4%)
<b>Total</b>	26,260	4,451	1,701	421	229	244	7046	33,306

**Appendix 4: Multivariable logistic regression model for variables independently associated with in-hospital mortality (for individual insurance category groups)**

	<b>Adjusted Odds Ratio</b>	<b>95% Confidence Interval</b>	<b>P Value</b>
<b>Age &amp; Severity of Illness</b>			
Age (years)	1.030	(1.027 - 1.033)	<0.001
APACHE III Score (without age component)	1.038	(1.037 - 1.040)	<0.001
<b>Index of Relative Socio-economic Advantage and Disadvantage</b>			
Lowest Decile	1.00	(Reference category)	
2	0.94	(0.78 - 1.13)	0.500
3	0.90	(0.74 - 1.10)	0.300
4	0.87	(0.73 - 1.04)	0.130
5	1.00	(0.83 - 1.21)	1.000
6	0.83	(0.69 - 0.99)	0.039
7	0.99	(0.84 - 1.17)	0.930
8	1.01	(0.84 - 1.20)	0.940
9	0.89	(0.75 - 1.04)	0.150
Highest Decile	0.84	(0.69 - 1.01)	0.070
<b>Post-operative Status</b>			
Operative	1.00	(Reference category)	
Non-operative	1.96	(1.59 - 2.42)	<0.001
Operative status unknown	11.4	(6.87 - 19.0)	<0.001
<b>Diagnosis</b>			
CAGS	1.00	(Reference category)	
Abdominal & Thoracic Aneurysm	4.49	(3.13 - 6.46)	<0.001
Asthma	1.55	(0.59 - 4.06)	0.37
Burns	5.23	(3.04 - 9.00)	<0.001
CAGS and Valve	1.65	(1.13 - 2.41)	0.009
Cardiac Arrest	7.77	(5.48 - 11.0)	<0.001
Cardiac Failure	6.19	(4.39 - 8.74)	<0.001
Cardiac Valve Operations	1.46	(0.99 - 2.15)	0.06
Drug Overdose	0.86	(0.50 - 1.50)	0.60
Gastro-intestinal Disorders	5.34	(3.75 - 7.60)	<0.001
Genito-urinary Disorders	1.55	(0.80 - 2.98)	0.19
Haematology Disorders	8.90	(5.63 - 14.1)	<0.001
Head Injury	8.77	(6.03 - 12.7)	<0.001
Intracranial Haemorrhage	18.6	(13.6 - 25.5)	<0.001
Metabolic Disorders	1.57	(0.97 - 2.56)	0.07
Orthopaedic Disorders	4.06	(2.60 - 6.34)	<0.001
Other Cardiothoracic Operations	4.40	(3.30 - 5.88)	<0.001
Other Cardiovascular Disorders	3.98	(2.69 - 5.89)	<0.001
Other Diagnoses	3.32	(2.13 - 5.16)	<0.001
Other Neurological Disorders	7.78	(5.57 - 10.9)	<0.001
Other Respiratory Disorders	6.82	(4.89 - 9.51)	<0.001
Pneumonia	5.47	(3.86 - 7.75)	<0.001
Post-operative Gastro-intestinal Conditions	5.50	(4.23 - 7.15)	<0.001
Renal Disorders	2.60	(1.73 - 3.90)	<0.001
Seizures	1.38	(0.78 - 2.45)	0.27

Sepsis and Septic Shock	4.03	(2.88 - 5.64)	<0.001
Sub-arachnoid Haemorrhage	20.1	(14.0 - 28.8)	<0.001
Trauma (excluding head injuries)	5.22	(3.67 - 7.40)	<0.001
<b>Hospital</b>			
Hospital A	1.00	(Reference category)	
Hospital B	0.79	(0.69 - 0.91)	0.001
Hospital C	0.90	(0.79 - 1.01)	0.080
Hospital D	1.13	(1.00 - 1.26)	0.048
Hospital E	1.02	(0.85 - 1.21)	0.870
<b>Year of ICU Admission</b>			
2007	1.00	(Reference category)	
2008	1.02	(0.87 - 1.19)	0.83
2009	0.90	(0.77 - 1.05)	0.17
2010	0.76	(0.66 - 0.88)	<0.001
2011	0.77	(0.67 - 0.88)	<0.001
2012	0.76	(0.66 - 0.88)	<0.001
<b>Insurance Group</b>			
Public Patient	1.00	(Reference category)	
Privately Insured	0.71	(0.63 - 0.80)	<0.001
Trauma Accident Commission	0.54	(0.42 - 0.69)	<0.001
Veteran's Affairs	1.13	(0.86 - 1.49)	0.38
Work Cover	0.79	(0.45 - 1.39)	0.42
Other Compensable Groups	0.89	(0.55 - 1.46)	0.66

Pseudo  $R^2 = 0.293$

Area under Receiver Operator Characteristic curve = 0.862

Hosmer-Lemeshow C statistic = 11.0, P Value = 0.21

APACHE = Acute Physiological and Chronic Health Evaluation

CAGS = Coronary Artery Bypass Graft Surgery

**Appendix 5: Multivariable logistic regression model for variables independently associated with in-hospital mortality (for overall public / compensable patients)**

	Adjusted Odds Ratio	95% Confidence Interval	P Value
<b>Age &amp; Severity of Illness</b>			
Age (years)	1.030	(1.028 - 1.033)	<0.001
APACHE III Score (without age component)	1.038	(1.037 - 1.040)	<0.001
<b>Index of Relative Socio-economic Advantage and Disadvantage</b>			
Lowest Decile	1.00	(Reference category)	
2	0.94	(0.79 - 1.13)	0.53
3	0.90	(0.74 - 1.09)	0.30
4	0.88	(0.73 - 1.04)	0.14
5	1.00	(0.83 - 1.21)	0.97
6	0.83	(0.69 - 0.99)	0.04
7	1.00	(0.84 - 1.17)	0.95
8	1.02	(0.85 - 1.21)	0.87
9	0.89	(0.76 - 1.05)	0.17
Highest Decile	0.84	(0.70 - 1.02)	0.07
<b>Post-operative Status</b>			
Operative	1.00	(Reference category)	
Non-operative	1.96	(1.59 - 2.41)	<0.001
Operative status unknown	11.4	(6.88 - 19.0)	<0.001
<b>Diagnosis</b>			
CAGS	1.00	(Reference category)	
Abdominal & Thoracic Aneurysm	4.51	(3.14 - 6.48)	<0.001
Asthma	1.57	(0.60 - 4.11)	0.36
Burns	5.41	(3.15 - 9.3)	<0.001
CAGS and Valve	1.65	(1.13 - 2.40)	0.009
Cardiac Arrest	7.85	(5.54 - 11.1)	<0.001
Cardiac Failure	6.26	(4.44 - 8.83)	<0.001
Cardiac Valve Operations	1.46	(0.99 - 2.15)	0.06
Drug Overdose	0.88	(0.51 - 1.53)	0.65
Gastro-intestinal Disorders	5.39	(3.78 - 7.67)	<0.001
Genito-urinary Disorders	1.55	(0.80 - 2.98)	0.19
Haematology Disorders	9.04	(5.72 - 14.3)	<0.001
Head Injury	7.93	(5.53 - 11.4)	<0.001
Intracranial Haemorrhage	18.8	(13.7 - 25.7)	<0.001
Metabolic Disorders	1.58	(0.97 - 2.58)	0.07
Orthopaedic Disorders	4.12	(2.64 - 6.42)	<0.001
Other Cardiothoracic Operations	4.43	(3.32 - 5.92)	<0.001
Other Cardiovascular Disorders	4.01	(2.71 - 5.94)	<0.001
Other Diagnoses	3.36	(2.16 - 5.22)	<0.001
Other Neurological Disorders	7.84	(5.61 - 10.9)	<0.001
Other Respiratory Disorders	6.89	(4.94 - 9.60)	<0.001
Pneumonia	5.52	(3.90 - 7.83)	<0.001
Post-operative Gastro-intestinal Conditions	5.54	(4.26 - 7.21)	<0.001
Renal Disorders	2.62	(1.74 - 3.93)	<0.001
Seizures	1.41	(0.79 - 2.49)	0.24
Sepsis and Septic Shock	4.08	(2.92 - 5.70)	<0.001
Sub-arachnoid Haemorrhage	20.4	(14.2 - 29.3)	<0.001

Trauma (excluding head injuries)	4.72	(3.36 - 6.63)	<0.001
<b>Hospital</b>			
Hospital A	1.00	(Reference category)	
Hospital B	0.79	(0.69 - 0.91)	0.001
Hospital C	0.92	(0.81 - 1.04)	0.160
Hospital D	1.14	(1.01 - 1.28)	0.028
Hospital E	1.02	(0.86 - 1.22)	0.81
<b>Year of ICU Admission</b>			
2007	1.00	(Reference category)	
2008	1.02	(0.87 - 1.19)	0.84
2009	0.90	(0.77 - 1.04)	0.16
2010	0.76	(0.66 - 0.88)	<0.001
2011	0.77	(0.66 - 0.88)	<0.001
2012	0.76	(0.66 - 0.87)	<0.001
<b>Insurance Status</b>			
Public Patient	1.00	(Reference category)	
Compensable Patient	0.73	(0.80 - 0.65)	<0.001

Pseudo  $R^2 = 0.293$

Area under Receiver Operator Characteristic curve = 0.861

Hosmer-Lemeshow C statistic = 13.2, P Value = 0.11

APACHE = Acute Physiological and Chronic Health Evaluation

CAGS = Coronary Artery Bypass Graft Surgery

**Appendix 6: Multivariable linear regression model for variables independently associated with log length of stay in ICU (for overall public / compensable patients)**

	Ratio of Length of Stay compared to Reference Categories*	95% Confidence Interval	P Value
<b>Insurance Status</b>			
Public Patients	1.00	(Reference category)	
Compensable Patient	1.08	(1.05 - 1.12)	<0.001
<b>Index of Relative Socio-economic Advantage and Disadvantage</b>			
Lowest Decile	1.00	(Reference category)	
2	1.00	(0.94 - 1.05)	0.9
3	1.01	(0.95 - 1.07)	0.74
4	1.06	(1.00 - 1.11)	0.039
5	0.95	(0.89 - 1.00)	0.07
6	0.98	(0.93 - 1.03)	0.46
7	0.96	(0.91 - 1.01)	0.1
8	0.97	(0.91 - 1.02)	0.19
9	0.96	(0.92 - 1.01)	0.15
Highest Decile	0.93	(0.88 - 0.99)	0.014
<b>Post-operative Status</b>			
Non-operative	1.00	(Reference category)	
Operative	1.11	(1.03 - 1.19)	0.004
Operative status unknown	0.76	(0.66 - 0.88)	<0.001
<b>Diagnosis</b>			
CAGS	1.00	(Reference category)	
Abdominal & Thoracic Aneurysm	1.28	(1.17 - 1.39)	<0.001
Asthma	0.86	(0.73 - 1.02)	0.08
Burns	1.57	(1.35 - 1.83)	<0.001
CAGS and Valve	1.27	(1.18 - 1.35)	<0.001
Cardiac Arrest	0.73	(0.65 - 0.81)	<0.001
Cardiac Failure	1.01	(0.92 - 1.11)	0.85
Cardiac Valve Operations	0.95	(0.90 - 1.01)	0.11
Drug Overdose	0.71	(0.64 - 0.79)	<0.001
Gastro-intestinal Disorders	1.19	(1.07 - 1.32)	0.001
Genito-urinary Disorders	0.78	(0.70 - 0.87)	<0.001
Haematology Disorders	1.05	(0.89 - 1.25)	0.56
Head Injury	1.53	(1.38 - 1.69)	<0.001
Intracranial Haemorrhage	1.27	(1.16 - 1.40)	<0.001
Metabolic Disorders	0.88	(0.78 - 0.99)	0.036
Orthopaedic Disorders	0.69	(0.62 - 0.76)	<0.001
Other Cardiothoracic Operations	1.02	(0.97 - 1.07)	0.52
Other Cardiovascular Disorders	1.06	(0.95 - 1.19)	0.29
Other Diagnoses	0.88	(0.80 - 0.97)	0.013
Other Neurological Disorders	1.09	(1.00 - 1.19)	0.042
Other Respiratory Disorders	1.20	(1.10 - 1.31)	<0.001
Pneumonia	1.78	(1.61 - 1.96)	<0.001
Post-operative Gastro-intestinal Conditions	0.98	(0.93 - 1.02)	0.32
Renal Disorders	1.05	(0.92 - 1.19)	0.48
Seizures	0.95	(0.83 - 1.08)	0.43
Sepsis and Septic Shock	1.09	(1.00 - 1.20)	0.06
Sub-arachnoid Haemorrhage	1.91	(1.69 - 2.14)	<0.001
Trauma (excluding head injuries)	1.49	(1.39 - 1.59)	<0.001



<b>Hospital</b>			
Hospital A	1.00	(Reference category)	
Hospital B	0.57	(0.55 - 0.59)	<0.001
Hospital C	0.68	(0.66 - 0.71)	<0.001
Hospital D	0.60	(0.57 - 0.62)	<0.001
Hospital E	0.64	(0.60 - 0.68)	<0.001
<b>Year of ICU Admission</b>			
2007	1.00	(Reference category)	
2008	0.78	(0.74 - 0.82)	<0.001
2009	0.75	(0.71 - 0.79)	<0.001
2010	0.93	(0.89 - 0.97)	0.001
2011	0.99	(0.95 - 1.03)	0.6
2012	1.03	(0.99 - 1.08)	0.15
<b>Age &amp; Severity of Illness*</b>			
Age (years)	-0.1%	(-0.2% to 0.1%)	0.06
APACHE III Score (without age component)	1.6%	(1.5% to 1.7%)	<0.001

Adjusted R<sup>2</sup> = 0.1887

Number of observations = 30,935

\*Continuous variables reported as % change in length of stay associated with a one unit increase

APACHE = Acute Physiological and Chronic Health Evaluation

CAGS = Coronary Artery Bypass Graft Surgery

LOS = Length of Stay

**Appendix 7: Multivariable linear regression model for variables independently associated with log length of stay in hospital (for overall public / compensable patients)**

	Ratio of Length of Stay Compared to Reference Categories*	95% Confidence Interval	P Value
<b>Insurance Status</b>			
Public Patients	1.00	(Reference category)	<0.001
Compensable Patient	1.13	(1.09 - 1.16)	<0.001
<b>Index of Relative Socio-economic Advantage and Disadvantage</b>			
Lowest Decile	1.00	(Reference category)	
2	1.01	(0.95 - 1.07)	0.77
3	0.93	(0.88 - 0.99)	0.018
4	0.98	(0.92 - 1.03)	0.41
5	0.96	(0.91 - 1.01)	0.11
6	0.95	(0.90 - 1.00)	0.046
7	0.95	(0.90 - 1.00)	0.042
8	0.94	(0.89 - 1.00)	0.036
9	0.92	(0.88 - 0.97)	0.001
Highest Decile	0.88	(0.83 - 0.93)	<0.001
<b>Post-operative Status</b>			
Non-operative	1.00	(Reference category)	
Operative	0.88	(0.82 - 0.93)	<0.001
Operative status unknown	0.80	(0.68 - 0.93)	0.004
<b>Diagnosis</b>			
CAGS	1.00	(Reference category)	
Abdominal & Thoracic Aneurysm	1.12	(1.03 - 1.22)	0.009
Asthma	0.67	(0.56 - 0.81)	<0.001
Burns	1.82	(1.60 - 2.07)	<0.001
CAGS and Valve	1.24	(1.16 - 1.33)	<0.001
Cardiac Arrest	0.81	(0.74 - 0.90)	<0.001
Cardiac Failure	1.30	(1.18 - 1.43)	<0.001
Cardiac Valve Operations	1.18	(1.11 - 1.24)	<0.001
Drug Overdose	0.46	(0.41 - 0.51)	<0.001
Gastro-intestinal Disorders	1.55	(1.40 - 1.70)	<0.001
Genito-urinary Disorders	1.18	(1.06 - 1.32)	0.004
Haematology Disorders	2.37	(2.02 - 2.76)	<0.001
Head Injury	1.25	(1.14 - 1.36)	<0.001
Intracranial Haemorrhage	1.23	(1.13 - 1.33)	<0.001
Metabolic Disorders	1.10	(0.97 - 1.25)	0.13
Orthopaedic Disorders	1.50	(1.35 - 1.66)	<0.001
Other Cardiothoracic Operations	1.52	(1.44 - 1.60)	<0.001
Other Cardiovascular Disorders	1.26	(1.12 - 1.41)	<0.001
Other Diagnoses	1.02	(0.93 - 1.13)	0.65
Other Neurological Disorders	1.56	(1.44 - 1.69)	<0.001
Other Respiratory Disorders	1.52	(1.39 - 1.66)	<0.001
Pneumonia	1.80	(1.64 - 1.98)	<0.001
Post-operative Gastro-intestinal Conditions	1.53	(1.46 - 1.62)	<0.001
Renal Disorders	1.57	(1.38 - 1.79)	<0.001
Seizures	1.02	(0.91 - 1.15)	0.72
Sepsis and Septic Shock	1.57	(1.44 - 1.70)	<0.001
Sub-arachnoid Haemorrhage	1.78	(1.60 - 1.97)	<0.001
Trauma (excluding head injuries)	1.21	(1.13 - 1.28)	<0.001

<b>Hospital</b>				
	Hospital A	1.00	(Reference category)	
	Hospital B	0.76	(0.74 - 0.79)	<0.001
	Hospital D	0.86	(0.84 - 0.89)	<0.001
	Hospital E	0.66	(0.63 - 0.70)	<0.001
<b>Year of ICU Admission</b>				
	2007	1.00	(Reference category)	
	2008	1.06	(1.00 - 1.11)	0.038
	2009	0.98	(0.93 - 1.03)	0.46
	2010	0.94	(0.90 - 0.99)	0.016
	2011	0.94	(0.90 - 0.98)	0.006
	2012	0.93	(0.89 - 0.98)	0.003
<b>Age &amp; Severity of Illness*</b>				
	Age (years)	0.5%	(0.5% to 0.6%)	<0.001
	APACHE III Score (without age component)	0.8%	(0.7% to 0.9%)	<0.001

Adjusted R<sup>2</sup> = 0.1838

Number of observations = 24,779

\*Continuous variables reported as % change in length of stay associated with a one unit increase

APACHE = Acute Physiological and Chronic Health Evaluation

CAGS = Coronary Artery Bypass Graft Surgery

LOS = Length of Stay (N.B. hospital LOS not provided by Hospital C)