

Appendix: Crude 2 day mortality rates (per 1,000 admissions) and adjusted odds ratios by day of procedure, England 2008/9-2010/11 [posted as supplied by author]

	Day of procedure						p value †
	Mon	Tues	Wed	Thu	Fri	W/e	
<i>All elective surgical procedures</i>							
No of admissions	759,969	852,438	836,623	828,252	669,184	186,880	
No of deaths (mortality rate per 1,000 admissions)	495 (0.7)	610 (0.7)	713 (0.9)	723 (0.9)	635 (0.9)	277 (1.5)	<0.001
Odds Ratio (95% CI)	1	1.08 (0.96-1.21)	1.27 (1.13-1.43)	1.31 (1.17-1.47)	1.42 (1.26-1.60)	2.67 (2.30-3.09)	<0.001
<i>Higher risk procedures</i>							
Excision of oesophagus and/or stomach							
No of admissions	1201	1128	941	1098	490	223	
No of deaths (mortality rate per 1,000 admissions)	5 (4.2)	6 (5.3)	3 (3.2)	10 (9.1)	4 (8.2)	5 (22.4)	0.008
Odds Ratio (95% CI)	1	1.27 (0.39-4.18)	0.76 (0.18-3.21)	2.23 (0.76-6.57)	2.01 (0.53-7.54)	5.98 (1.69-21.24)	0.008
Excision of colon and/ or rectum							
No of admissions	14541	19061	18125	16399	11937	2251	
No of deaths (mortality rate per 1,000 admissions)	38 (2.6)	55 (2.9)	71 (3.9)	75 (4.6)	58 (4.9)	36 (16.0)	<0.001
Odds Ratio (95% CI)	1	1.1 (0.73-1.66)	1.49 (1.01-2.21)	1.74 (1.18-2.57)	1.84 (1.22-2.77)	6.21 (3.92-9.83)	<0.001
Coronary artery bypass graft							
No of admissions	8891	9071	8776	8347	6544	1601	
No of deaths (mortality rate per 1,000 admissions)	35 (3.9)	37 (4.1)	45 (5.1)	46 (5.5)	46 (7.0)	10 (6.2)	0.003
Odds Ratio (95% CI)	1	1.03 (0.65-1.63)	1.33 (0.85-2.07)	1.38 (0.89-2.14)	1.75 (1.13-2.73)	1.79 (0.88-3.63)	0.003
Repair of abdominal aortic aneurysm							
No of admissions	2392	2499	2734	2448	1379	202	
No of deaths (mortality rate per 1,000 admissions)	21 (8.8)	27 (10.8)	29 (10.6)	29 (11.8)	21 (15.2)	8 (39.6)	0.006
Odds Ratio (95% CI)	1	1.26 (0.71-2.25)	1.25 (0.71-2.20)	1.40 (0.79-2.46)	1.73 (0.94-3.18)	4.30 (1.86-9.90)	0.008
Excision of lung							
No of admissions	3194	3356	3414	3397	2209	357	
No of deaths (mortality rate per 1,000 admissions)	4 (1.3)	7 (2.1)	8 (2.3)	10 (2.9)	8 (3.6)	1 (2.8)	0.064
Odds Ratio (95% CI)	1	1.68 (0.49-5.74)	1.85 (0.56-6.16)	2.41 (0.75-7.69)	2.90 (0.87-9.66)	2.19 (0.24-19.67)	0.065
<i>Lower risk procedures(combined)*</i>							
No of admissions	99480	108038	105789	109529	95349	37450	
No of deaths (mortality rate per 1,000 admissions)	34 (0.3)	36 (0.3)	44 (0.4)	46 (0.4)	40 (0.4)	19 (0.5)	0.100
Odds Ratio (95% CI)	1	0.97 (0.61-1.55)	1.21 (0.77-1.89)	1.23 (0.79-1.91)	1.23 (0.78-1.94)	1.54 (0.88-2.70)	0.085

Odds Ratios adjusted for age, sex, socio-economic deprivation, co-morbidities, ethnic group, year of procedure, emergency admissions in the last 12 months and day of the week; CI, confidence interval; \* hip replacement, knee replacement, inguinal hernia, varicose vein stripping or ligation, tonsillectomy, primary repair of femoral hernia, and repair of other hernia abdominal wall; † p value for linear trend.