

**Supplementary Table 2:** Heat table of operative EGS admissions: inpatient crude mortality rate by SIMD and CCI, including mortality risk ratios relative to least comorbid (CCI=0) and least deprived (SIMD 10).

Operative Patients Heat Map		CCI																
		0				1 to 2				3 to 4				>4				
		SIMD	Inpatient Mortality	30-day Mortality	90-day Mortality	1-year Mortality	Inpatient Mortality	30-day Mortality	90-day Mortality	1-year Mortality	Inpatient Mortality	30-day Mortality	90-day Mortality	1-year Mortality	Inpatient Mortality	30-day Mortality	90-day Mortality	1-year Mortality
Crude Mortality	1		0.00	0.01	0.03	0.07	0.03	0.08	0.15	0.22	0.05	0.13	0.23	0.32	0.10	0.19	0.40	0.52
	2		0.00	0.01	0.03	0.06	0.03	0.08	0.16	0.24	0.06	0.12	0.22	0.33	0.12	0.21	0.43	0.54
	3		0.00	0.01	0.03	0.07	0.03	0.08	0.16	0.24	0.05	0.11	0.22	0.32	0.13	0.23	0.43	0.55
	4		0.00	0.01	0.03	0.07	0.03	0.08	0.15	0.23	0.05	0.13	0.23	0.34	0.11	0.19	0.43	0.54
	5		0.00	0.01	0.03	0.07	0.04	0.08	0.16	0.24	0.05	0.12	0.22	0.30	0.10	0.18	0.39	0.49
	6		0.00	0.01	0.03	0.07	0.03	0.08	0.16	0.24	0.03	0.10	0.19	0.29	0.09	0.19	0.42	0.53
	7		0.00	0.01	0.03	0.07	0.03	0.08	0.16	0.24	0.06	0.11	0.23	0.32	0.08	0.22	0.40	0.50
	8		0.00	0.01	0.03	0.06	0.03	0.08	0.16	0.24	0.03	0.10	0.22	0.34	0.08	0.19	0.39	0.50
	9		0.00	0.01	0.03	0.07	0.03	0.07	0.16	0.24	0.04	0.12	0.21	0.30	0.09	0.18	0.39	0.53
	10		0.00	0.01	0.03	0.06	0.03	0.07	0.16	0.23	0.04	0.11	0.21	0.29	0.08	0.20	0.40	0.51
Mortality Risk Ratios	1		1.53	4.37	9.49	20.66	10.27	24.24	46.93	70.27	15.24	40.00	73.23	102.01	31.20	60.71	126.90	164.42
	2		1.36	4.02	9.18	19.98	11.07	25.52	50.74	75.07	17.73	37.59	71.16	106.15	36.63	65.28	137.15	170.96
	3		1.45	4.67	10.17	20.88	10.56	25.88	51.91	75.10	15.02	35.50	70.45	100.49	41.75	72.95	136.26	173.89
	4		1.55	4.20	9.52	20.69	10.45	23.79	48.08	72.31	16.74	39.66	74.17	108.94	34.89	60.43	135.32	170.64
	5		1.41	4.18	9.53	21.07	11.29	24.74	52.02	76.54	14.51	38.17	70.66	95.90	31.11	58.38	122.72	156.39
	6		1.40	4.25	9.82	21.00	9.02	23.80	50.81	77.59	10.62	32.58	58.94	90.79	28.00	59.51	132.01	169.52
	7		1.57	3.98	9.51	21.24	10.62	25.70	51.72	75.40	18.77	33.79	72.17	100.95	24.60	71.01	125.81	159.35
	8		1.31	3.71	8.97	20.08	10.66	24.56	50.05	75.23	10.55	33.03	69.28	107.36	26.47	60.82	125.01	157.11
	9		1.39	4.02	9.63	20.92	9.57	23.40	50.13	77.04	12.98	38.44	67.40	93.86	27.43	57.41	122.47	166.49
	10		1.00	3.34	8.58	20.02	10.19	23.46	49.20	72.59	13.41	35.52	65.69	93.17	25.18	64.44	126.66	162.22

SIMD= Scottish Index of Multiple Deprivation; CCI= Charlson Comorbidity Index.