

## Appendix 3: Sensitivity analyses - Mean time and time differences between integrated operating room (IOR) and conventional operating room (COR)

Surgical specialty	Type of surgery	Preparation time (minutes) <sup>a</sup>						Surgical time (minutes) <sup>b</sup>							
		Integrated OR		Conventional OR		T-test		Integrated OR		Conventional OR		T-test (unadjusted)		Regression (adjusted for surgeon)	
		N	Mean	N	Mean	Difference	95 % CI	N	Mean	N	Mean	Difference	95 % CI	Difference	95 % CI
Gastrointestinal surgery	Appendectomy	40	37.38	43	37.51	-0.14	(-5.00;4.73)	39	47.36	45	52.84	-5.49	(-15.43;4.46)	-5.79	(-17.42;5.84)
Gastrointestinal surgery	Colecystectomy	33	50.61	22	54.95	-4.35	(-11.51;2.81)	34	86.65	23	91.83	-5.18	(-26.22;15.86)	3.19	(-21.61;28.00)
Heart, lung and vascular surgery	Lobectomy	238	70.01	120	76.60	-6.59	(-10.91;-2.26)*	239	139.20	121	138.88	0.31	(-11.34;11.96)	-3.36	(-13.80;7.09)
Heart, lung and vascular surgery	Esophageal resection	149	106.28	37	98.05	8.23	(-3.23;19.68)	152	304.72	37	290.30	14.45	(-22.26;51.10)	12.07	(-23.65;47.78)
Heart, lung and vascular surgery	Pectus excavatum	81	44.65	103	46.68	-2.03	(-7.66;3.61)	83	38.81	101	37.09	1.72	(-4.21;7.65)	1.66	(-4.57;7.90)
Heart, lung and vascular surgery	Lung resection	127	64.91	139	67.81	-2.89	(-7.41;1.62)	130	61.98	139	55.49	6.49	(-0.37;13.35)	8.83	(1.72;15.95)*
Heart, lung and vascular surgery	Pectus carinatum	7	54.57	11	55.36	-0.79	(-26.02;24.43)	7	187.71	11	164.91	22.81	(-50.33;95.94)		
Surgical specialty	Type of surgery	Completion time (minutes) <sup>c</sup>						Procedure time (minutes) <sup>d</sup>							
		Integrated OR		Conventional OR		T-test		Integrated OR		Conventional OR				T-test	
		N	Mean	N	Mean	Difference	95 % CI	N	Mean	N	Mean			Difference	95 % CI
Gastrointestinal surgery	Appendectomy	38	16.74	44	17.36	-0.63	(-5.42;4.17)	38	101.08	38	111	-9.92	(-22.30;2.46)		
Gastrointestinal surgery	Cholecystectomy	32	23.78	21	15.86	7.92	(0.52;15.33)*	31	174.45	21	170.10	4.36	(-24.78;33.49)		
Heart, lung and vascular surgery	Lobectomy	215	20.69	112	23.08	-2.39	(-5.28;0.51)	217	231.32	111	237.53	-6.20	(-17.89; 5.48)		
Heart, lung and vascular surgery	Esophageal resection	120	26.54	30	29.13	-2.59	(-10.36;5.18)	120	429.84	30	398.90	30.94	(-5.74;67.62)		
Heart, lung and vascular surgery	Pectus excavatum	69	18.14	84	17.27	0.87	(-2.60;4.35)	66	103.55	83	98.37	5.17	(-5.64;15.98)		
Heart, lung and vascular surgery	Lung resection	114	20.91	128	20.90	0.02	(-2.73;2.78)	111	143.81	126	142.89	0.92	(-7.26;9.10)		
Heart, lung and vascular surgery	Pectus carinatum	5	18.40	9	25.00	-6.60	(-21.87;8.67)	5	235.60	9	229.89	5.71	(-59.54;70.96)		

OR = operating room

a = Time between patient entering OR and first incision  
b = Time between first incision and last suture  
c = Time between last suture and patient leaving OR  
d = Time between patient entering OR and leaving OR  
\* = Significant