

Appendix 1: Model results for registered nurse staffing and individual aspects of missed care

	Patients per Registered Nurse														χ^2_{sdf}	p	
	<u>up to 6.13</u>			<u>6.14 - 7.33</u>			<u>7.40 - 9.25</u>			<u>9.33 - 11.50</u>							
	OR	L95	U95	OR	L95	U95	OR	L95	U95	OR	L95	U95					
Adequate patient surveillance	0.39	0.29	0.54	§	0.58	0.43	0.79	§	0.72	0.54	0.97	†	0.80	0.61	1.06	38.15	<.001
Adequately document nursing care	0.58	0.41	0.81	‡	1.01	0.74	1.40		1.23	0.90	1.67		0.98	0.74	1.31	26.34	<.001
Comfort/talk with patients	0.49	0.36	0.67	§	0.66	0.48	0.91	†	0.82	0.60	1.11		0.86	0.65	1.15	25.71	<.001
Skin care	0.47	0.32	0.68	§	0.77	0.54	1.09		0.80	0.57	1.12		0.80	0.59	1.10	17.04	.002
Educating patients & family	0.70	0.52	0.94	†	0.84	0.62	1.13		0.96	0.72	1.28		1.18	0.91	1.55	15.72	.003
Develop/update nursing care plans/pathways	0.63	0.46	0.85	‡	0.95	0.70	1.29		0.91	0.68	1.22		1.00	0.76	1.31	14.74	.005
Oral hygiene¹	0.62	0.45	0.87	‡	0.86	0.62	1.18		0.96	0.70	1.29		0.90	0.67	1.19	10.49	.033
Planning care	0.63	0.45	0.88	‡	0.85	0.61	1.18		0.87	0.63	1.19		0.99	0.74	1.32	9.82	.044
Treatments & procedures	0.54	0.34	0.87	†	0.75	0.48	1.17		0.97	0.63	1.47		0.91	0.61	1.35	9.24	.055
Frequent changing of patient position	0.71	0.51	1.00		1.01	0.73	1.39		0.96	0.70	1.31		0.97	0.72	1.29	6.68	.154
Administer medications on time	0.66	0.46	0.94	†	0.89	0.63	1.26		0.90	0.64	1.25		0.84	0.62	1.15	6.14	.189
Pain management	1.49	0.81	2.73		1.59	0.88	2.88		1.60	0.90	2.86		1.65	0.97	2.81	3.85	.426
Prepare patients & families for discharge	0.87	0.61	1.24		0.92	0.65	1.31		0.96	0.68	1.35		0.99	0.72	1.35	0.77	.943

¹. Odds ratios (OR) from main effects model (without the patients per RN x patients per HCA interaction).

². 11.67 and over was the reference category for the calculation of ORs; OR for this category equals 1.

† < .05; ‡ < .01; § < .001