

Table, Supplemental Digital Content 4. Generalized Linear Mixed Model for Probability of Complication and 30-day Readmission of Free Flap, 2001-2012 †

Outcome	Complication			30-day Readmission		
Parameter	Odds Ratio	95% CI	P-value	Odds Ratio	95% CI	P-value
No of patients, 25,327						
Gender						
Female	0.69	0.59-0.82	<.01*	0.92	0.83-1.02	0.12
Male (ref)						
Patient age	0.99	0.99-1.00	0.75	0.99	0.99-1.00	0.01*
Elixhauser	1.10	1.06-1.14	<.01*	1.20	1.17-1.23	<.01*
Emergency						
Yes	1.02	0.76-1.38	0.85	0.95	0.78-1.18	0.68
No (ref)						
Surgeon experience (year)	0.98	0.97-0.99	<.01*	1.01	1.00-1.02	0.02*
Surgeon volume group						
11-25	0.99	0.83-1.17	0.90	0.98	0.85-1.14	0.82
>25	1.05	0.81-1.35	0.71	0.77	0.62-0.98	0.03*
≤ 10 (ref)						
Hospital type						
Public	0.73	0.42-1.26	0.26	0.93	0.73-1.20	0.58
Private (ref)						
Teaching hospital						
Yes	1.25	0.25-6.24	0.79	0.64	0.32-1.31	0.23
No (ref)						
Geographic location						
Central	1.87	1.01-3.44	0.05*	0.70	0.52-0.94	0.02*
Eastern	2.48	0.79-7.82	0.12	0.93	0.54-1.62	0.81
Southern	1.65	0.93-2.93	0.08	0.74	0.57-0.96	0.02*
Northern (ref)						
Average number of beds	1.00 ⁽¹⁾	1.00-1.00	<.01*	1.00 ⁽²⁾	1.00-1.00	0.91
Average number of plastic surgeons	1.04	1.02-1.06	<.01*	0.99	0.98-1.00	0.12
Hospital volume group						
95-156	0.31	0.16-0.61	0.01*	1.39	1.06-1.84	0.02*
>156	0.22	0.07-0.65	0.01*	0.77	0.49-1.24	0.29
≤ 94 (ref)						

†From Taiwan's National Health Insurance Research Database 2001-2012

*Significantly at the 95% confidence interval.

⁽¹⁾ Odds Ratio= 1.0006; ⁽²⁾ Odds Ratio= 0.999