

Table 3, Online Only. Adjusted hazard ratios for secondary palate surgery including year of primary palate repair as additional covariate.

Risk Factor	Secondary Palate Surgery ^a	
	Hazard Ratio (95% CI)	P Value
Sex		0.71
Male	0.98 (0.87-1.10)	
Female	Reference	
Race		0.12
White	Reference	
Black	0.75 (0.58-0.97)	
Asian or Pacific Islander	1.05 (0.80-1.37)	
American Indian	1.14 (0.61-2.11)	
Other	0.99 (0.82-1.19)	
Not specified	1.27 (0.98-1.64)	
Median annual household income of ZIP code		0.15
\$33,525 or less (<1.5 FPL ^b)	Reference	
\$33,526 - \$44,700 (1.5-2 FPL)	0.95 (0.82-1.10)	
\$44,701 - \$67,050 (2-3 FPL)	0.84 (0.72-0.98)	
\$67,051 or more (>3 FPL)	0.91 (0.73-1.13)	
Age at primary palate repair		<0.001
<9 months ^c		
At baseline	7.00 (5.38-9.09)	
At 1 year after repair	4.90 (3.57-6.72)	
At 5 years after repair	1.18 (0.69-2.00)	
9-15 months	1.18 (0.96-1.46)	
16-24 months	Reference	
Postoperative antibiotic use		0.01
None	Reference	
Yes	0.81 (0.69-0.95)	
Surgeon procedure volume (on day of repair)		0.13
Low (<10 repairs in prior year)	Reference	
Medium (10-25)	1.12 (0.95-1.33)	
High (>25)	1.27 (1.01-1.61)	
Hospital procedure volume (on day of repair)		0.52
Low (<25 repairs in prior year)	Reference	
Medium (25-50)	0.96 (0.78-1.17)	
High (>50)	0.86 (0.65-1.13)	

^a Model assumes clustering of patients within surgeons and clustering of surgeons within hospitals; $p < 0.001$ for likelihood-ratio tests of $\theta = 0$ for both surgeon and hospital

^b FPL, US Federal Poverty Level for a family of four

^c Age less than 9 months at primary repair is a time varying covariate, with baseline HR 7.00 (5.38-9.09) that decreases by 29.98% (26.10-33.65) each subsequent year

Length of stay after surgery		0.43
≤1 night	1.05 (0.92-1.20)	
≥2 nights	Reference	
Year of Primary Palate Repair		<0.001
1997	Reference	
1998	1.12 (0.15- 8.42)	
1999	1.22 (0.16- 9.20)	
2000	1.35 (0.18-10.10)	
2001	1.72 (0.23-12.89)	
2002	1.59 (0.21-11.85)	
2003	1.76 (0.24-13.12)	
2004	1.00 (0.13-7.46)	
2005	1.37 (0.18-10.26)	
2006	1.29 (0.17-9.65)	
2007	0.93 (0.12-7.03)	
2008	0.97 (0.13-7.35)	
2009	1.16 (0.15-8.78)	
2010	1.13 (0.15-8.61)	
2011	0.83 (0.11-6.39)	
2012	1.13 (0.14-9.28)	
2013	1.12 (0.15-8.42)	