Omitted study		Effect size with 95% CI	p-value	
Arias-Marzán		27.14 [22.69. 31.59]	0.000	
Baklacı		26.97 [22.53, 31.41]	0.000	
Bayazit	•	27.52 [23.10, 31.94]	0.000	
Bizakis		27.69 [23.31, 32.07]	0.000	
Bulğurcu	•	27.52 [23.06, 31.97]	0.000	
Choi –		25.87 [22.19, 29.56]	0.000	
Di Martino	•	27.93 [23.73, 32.13]	0.000	
Faramarzi	•	27.60 [23.17, 32.03]	0.000	
Genc		27.04 [22.59, 31.49]	0.000	
Gulotta, Visconti		27.38 [22.89, 31.86]	0.000	
Gulotta, Pace		27.29 [22.79, 31.78]	0.000	
Gülüstan		27.38 [22.89, 31.86]	0.000	
Jaswal		27.40 [22.94, 31.86]	0.000	
Kalcioglu	•	27.84 [23.55, 32.13]	0.000	
Lin -		26.99 [22.55, 31.44]	0.000	
Magliulo 2011		27.24 [22.74, 31.73]	0.000	
Magliulo 2018		27.49 [23.04, 31.93]	0.000	
Moody	•	27.57 [23.13, 32.01]	0.000	
Ocak		27.26 [22.81, 31.72]	0.000	
Ozbek -	•	26.84 [22.44, 31.24]	0.000	
Sahin -	•	26.85 [22.44, 31.26]	0.000	
TanrivermiŞ Sayit —		26.10 [22.18, 30.01]	0.000	
Selesnick		27.03 [22.59, 31.47]	0.000	
Shinnabe Oct 2014		27.06 [22.59, 31.53]	0.000	
Shinnabe Sept 2014 -		26.96 [22.51, 31.41]	0.000	
Trinidade	•	27.56 [23.12, 32.01]	0.000	
Wang		27.13 [22.66, 31.61]	0.000	
20	25 30	35		
Random-effects REML model				

Figure S1 Leave-one-out sensitivity analysis performed to investigate the impact on effect sizes and pooled prevalence after exclusion of any one study. CI, confidence interval; REML, restricted maximum likelihood.



Figure S2 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of primary and revision surgery on incidence of FCD. On the x-axis, 0 and 1 corresponds to the revision and primary surgery cohorts respectively. CI, confidence interval; ES, effect size; FCD, facial canal dehiscence.



Figure S4 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of cohort size (less than or greater than 300 patients) on incidence of FCD. On the x-axis, 0 and 1 corresponds to the n<300 and n>300 cohorts respectively. CI, confidence interval; ES, effect size; FCD, facial canal dehiscence.



Figure S3 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of age groups (adults or paediatrics) on incidence of FCD. On the x-axis, 0 and 1 corresponds to the paediatric and adult cohorts respectively. CI, confidence interval; ES, effect size; FCD, facial canal dehiscence.

Table S1 Leave-one-out sensitivity analysis performed for calculating the odds ratio of FCD in adult patients compared to paediatric patients

Omitted study	Odds ratio (95% CI)	Test for overall effect
None	1.83 (0.96–3.47)	Z=1.84 (P=0.07)
Arias-Marzán, 2019, (7)	1.78 (0.90–3.55)	Z=1.65 (P=0.10)
Bizakis, 2006, (9)	2.25 (1.30–3.91)	Z=2.90 (P=0.004)
Gulotta, Visconti, 2020, (13)	1.54 (0.91–2.92)	Z=1.32 (P=0.19)
Gülüstan, 2014, (15)	2.05 (0.92–4.55)	Z=1.77 (P=0.08)
Magliulo, 2011, (18)	1.57 (0.82–3.01)	Z=1.35 (P=0.18)
Sahin, 2020, (4)	1.97 (0.92–4.21)	Z=1.76 (P=0.08)
Shinnabe, October 2014, (24)	1.73 (0.82–3.67)	Z=1.43 (P=0.15)

The odds ratio is calculated using the Mantel-Haenszel test with a random-effects model and 95% confidence intervals. On omission of Bizakis *et al.*, the test for overall effect is significant and the confidence interval of the summary effect does not cross the line-of-no-effect. Cl, confidence interval; FCD, facial canal dehiscence.