

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.

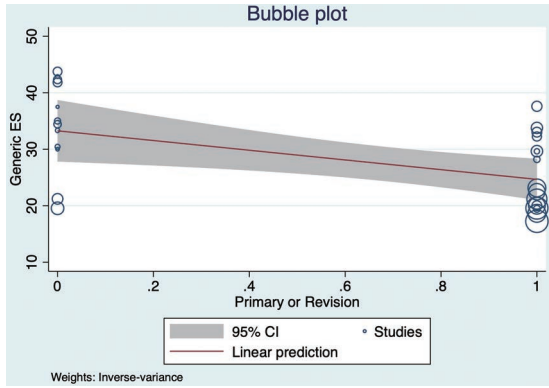


Figure S2 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of primary and revision surgery on incidence of FCD. On the x-axis, 0 and 1 corresponds to the revision and primary surgery cohorts respectively. CI, confidence interval;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

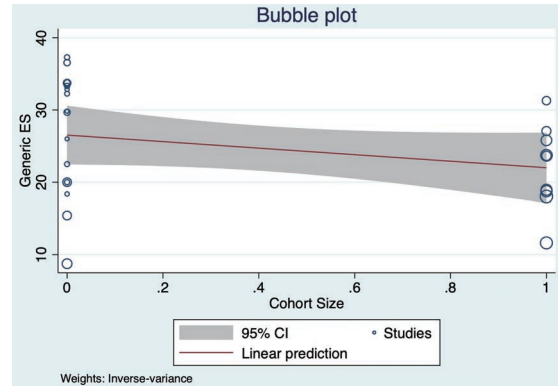


Figure S4 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of cohort size (less than or greater than 300 patients) on incidence of FCD. On the x-axis, 0 and 1 corresponds to the $n < 300$ and $n > 300$ cohorts respectively. CI, confidence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

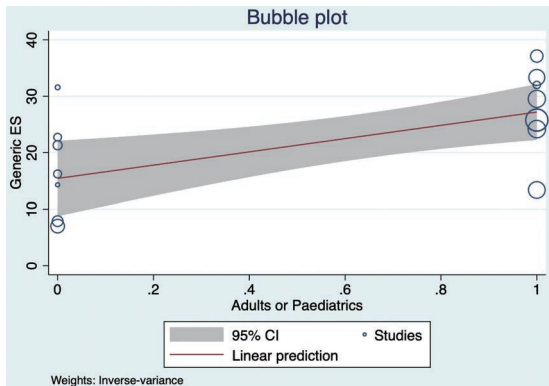


Figure S3 Bubble plot, or meta-regression scatter plot, with regression line (red) and 95% CI bounds (grey) to evaluate the effect of age groups (adults or paediatrics) on incidence of FCD. On the x-axis, 0 and 1 corresponds to the paediatric and adult cohorts respectively. CI, confidence interval; ES,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