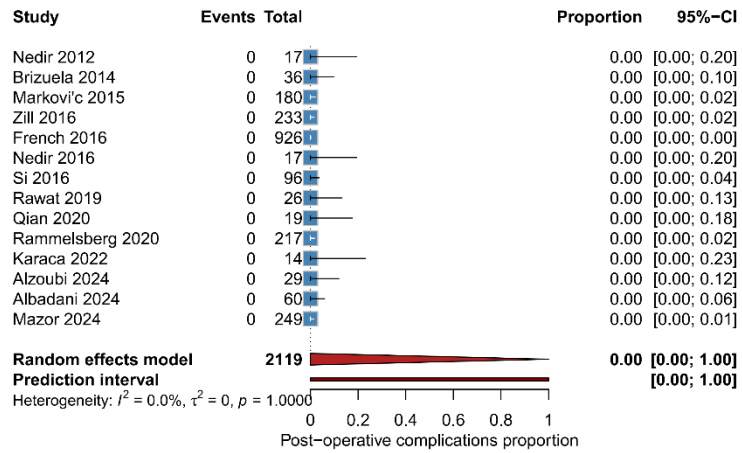
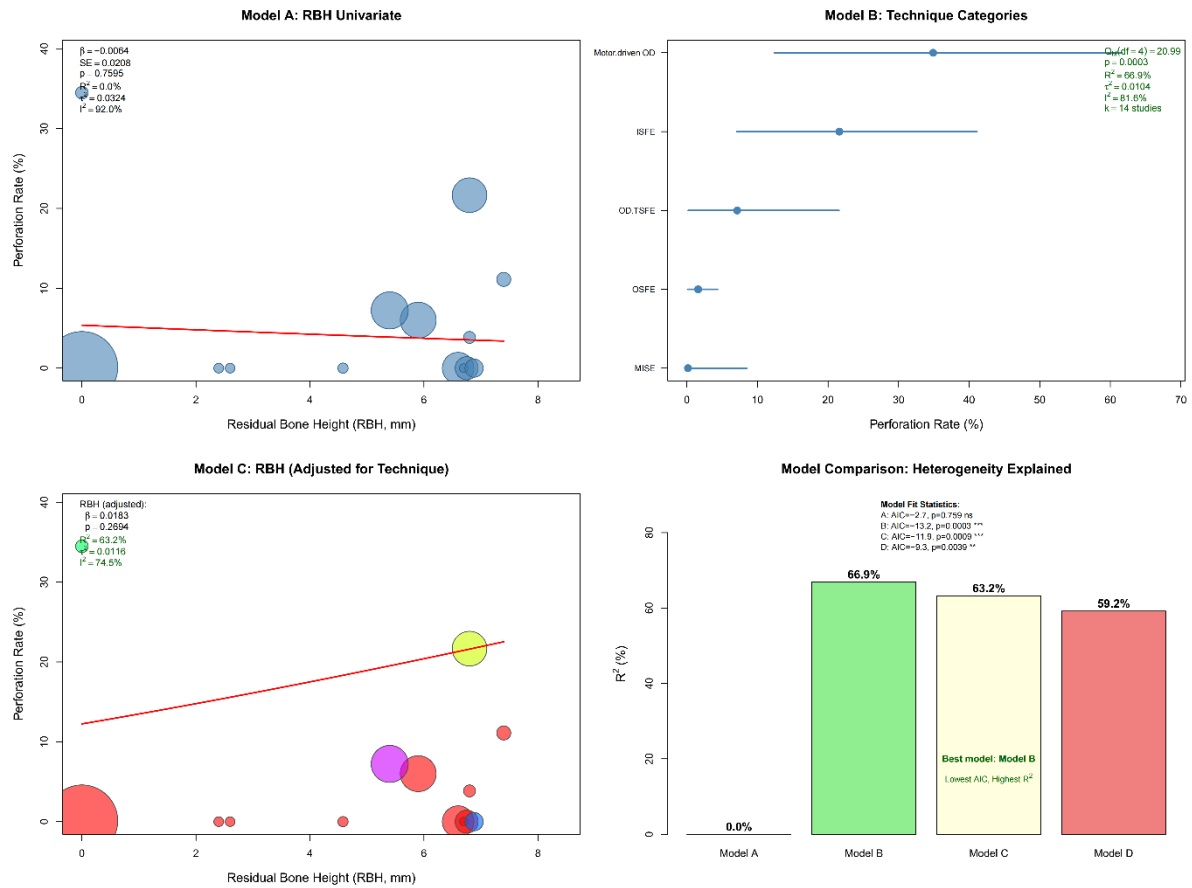


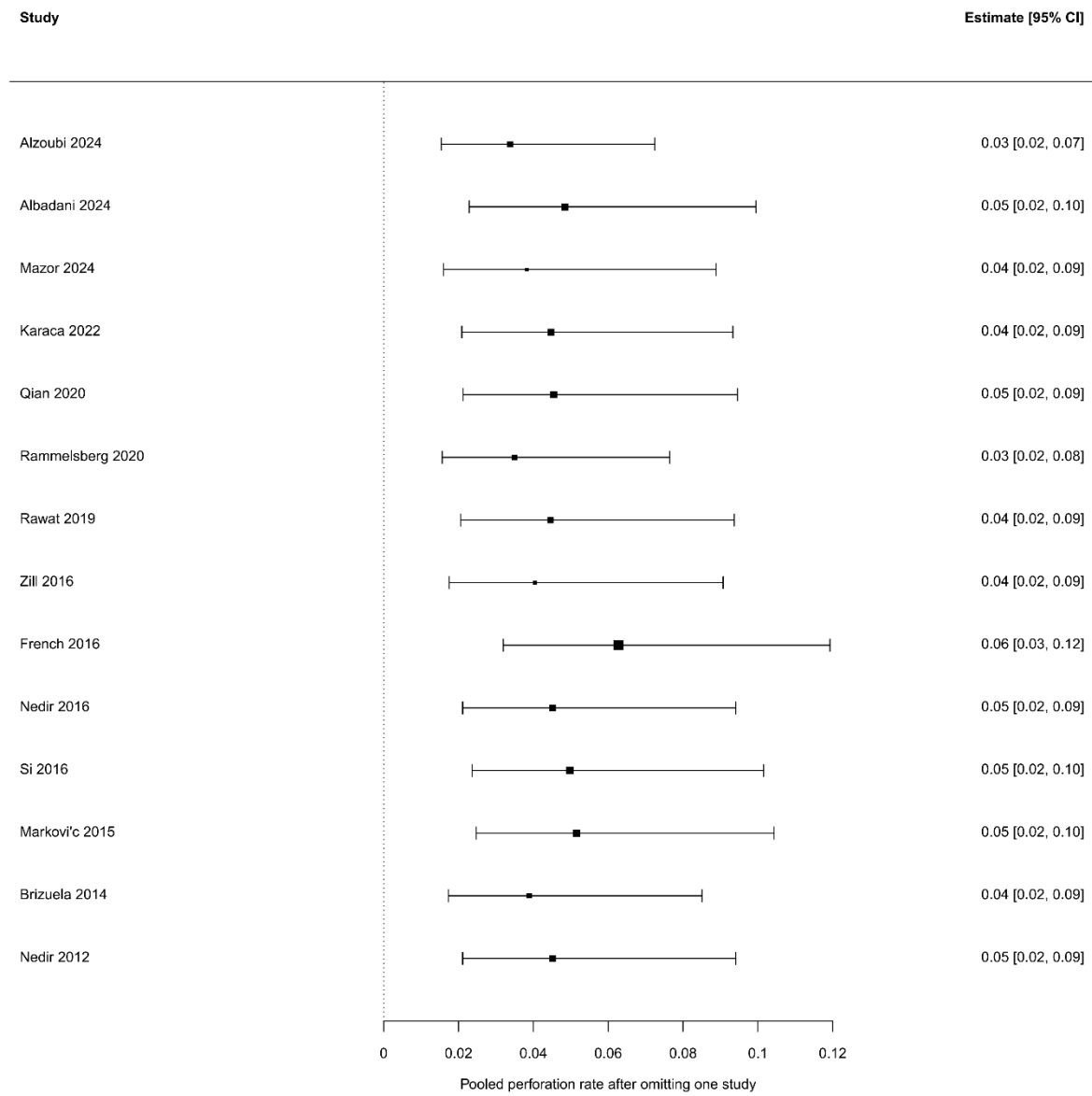
**Supplementary Figure 1** Forest plot —Complications.



**Supplementary Figure 2** Meta-regression analyses investigating sources of heterogeneity in membrane perforation rates. (A) Model A: Univariate analysis of Residual Bone Height (RBH). (B) Model B: Technique Categories. (C) Model C: RBH adjusted for Technique. (D) Model Comparison.



### Supplementary Figure 3 Sensitivity analysis using the leave-one-out method.



**Supplementary Figure 4** Funnel plot assessing publication bias for the incidence of Schneiderian membrane perforation(A), early implant failure rate(B) and overall complications(C).

