

Appendix 1. Specification of the generalized estimating equation (GEE) models used to analyze canalis sinuosus measurements, including correlation structure, variance estimation, covariates, interaction terms, link functions, and the number of clusters and observations.

Feature	Working correlation structure	Variance estimation	Covariates included	Interaction terms tested	Link function / Family	Clusters (patients)	Observations (canals)
Specification	Exchangeable	Robust (sandwich)	Position, side, sex	Side × position	Gaussian with identity link for continuous outcomes; Binomial with logit link for binary outcomes	219 (each patient can contribute multiple canals, accounting for within-patient correlation)	336 (total number of canals analyzed)