Supplemental Digital Content 5: Model Adjustments and Rationale

Type of Adjustment	Rationale
Multivariable logit	To adjust for potential confounding from covariates
Generalized linear mixed effect models with facility random effects	To account for clustering of patients within endoscopy practice sites using random effects
Generalized linear mixed effect models with endoscopist random effects	To account for clustering of patients within endoscopists using random effects, taking into consideration differences in endoscopist skill level, years of experience, variations in technique and residual unmeasured factors
Propensity score categories (restricted sample only)	To adjust for confounding that can occur related to the chance of receiving either propofol or conscious sedation (only applicable to facilities/endoscopists where propofol use was variable). Propensity scores were obtained by modeling the probability of being administered propofol using a logistic regression including terms for the covariates listed in Supplemental Digital Content 4.
Inverse probability of treatment weighted (restricted sample only)	To reduce the potential effects of residual confounding after the propensity score analysis (combines both patients that receive propofol and moderate sedation in a single group).