*Statistical Analysis*

To evaluate the correlation between procedures yielding diagnostically adequate specimens and monetary expenses, we created Ordinary Least Squares (OLS) models to measure the correlation between total cost. To filter noises to the direct effect by linear models, we created age groups with increments of 10 as age dummies. Thus, we also generated interceptions of binary variables: adequacy and methodology changes to limit heterogeneity according to t-test results (see Appendix 1).

We measured the financial effect on adequacy by five models: (1) the direct effect from total cost; (2) the financial effect and group differences: Traditional *vs.* OnControl®; (3) the previous model controlled for gender and age; (4) the previous model controlled for specimen aggregate volume (multi-collinearity checked by t-test; see Appendix 2); (5) measuring adequacy by total cost under group differences, aligned with gender and age control, group differences, and aggregated volume. Statistical analyses and regression visualizations were performed in Stata/SE version 15.1 with the freely available packages *outreg2*.