

BIOSTATISTICS STATEMENT

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Manuscript Type: Retrospective Study

Title: Split-dose Bowel Preparation Improves Adequacy of Bowel Preparation and Gastroenterologists' adherence to National Colorectal Cancer Screening and Surveillance Guidelines

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Biostatistics statement: Recommendation appropriateness was determined as either consistent or inconsistent with guidelines as described above under Endoscopist Recommendation Intervals. Primary exposure variable of interest was the institution of split-dose bowel preparation, and thus was the year 2011 versus 2009. Chi-square tests and student t-tests were used to assess differences between both cohorts. To test if the institution of split-dosing bowel preparation reduced the percent of follow-up recommendations consistent with guidelines in patients with normal colonoscopy, logistic regression was used with guideline consistent recommendations as the dependent variables and an indicator for 2011 cohort as the primary predictor. Other independent predictors of guideline consistent recommendations included age, sex, race, BMI, narcotics use, TCA use, diabetes, and procedure characteristics. Odds ratios and 95% confidence intervals were obtained from the logistic regression model parameter estimates. Statistical analysis was performed using Stata 13.1 (StataCorp LP, College Station, TX)



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