Effectiveness of Screening Colonoscopy in Reducing the Incidence of Colorectal Cancer According to Anatomic Location, Endoscopists’ Specialty and Colonoscopy Quality

Abstract. Colonoscopy remains the gold standard screening tool for colorectal cancer and offers the advantage of therapeutic intervention and biopsy at the time of screening. However, evidence from extant literature suggests screening colonoscopy yields greater protection for left-sided colon cancers compared to right-sided colon cancers. Therefore, in addition to anatomic location, the sensitivity of screening colonoscopies may be observer dependent. We investigated the relationship between screening colonoscopies and incidence of colorectal cancers as influenced by outcome variations due to anatomic location, endoscopist characteristics and colonoscopy quality.