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**Scientific Research Process**

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**Title:** Does deep sedation with propofol affect adenoma detection rates in average risk screening colonoscopy exams?

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1 What did this study explore?

We aimed to determine the effect of sedation with propofol on adenoma detection rate (ADR) and cecal intubation rates (CIR) in average risk screening colonoscopies compared to moderate sedation.

2 How did the authors perform all experiments?

This is a retrospective study to evaluate the effect of propofol deep sedation versus opioid/benzodiazepine moderate sedation on adenoma detection rate (ADR) and cecal intubation rate (CIR) colonoscopy quality metrics.

3 How did the authors process all experimental data?

Data was de-identified and extracted from the electronic medical record by the study investigators.

4 How did the authors deal with the pre-study hypothesis?

Our pre-study hypothesis was that deep sedation with propofol does not improve ADR among average risk screening colonoscopy exams.

5 What are the novel findings of this study?

Deep sedation with propofol for screening colonoscopy did not significantly improve ADR or CIR in our population of average risk patients. While propofol may allow for safer sedation in certain patients (e.g. with sleep apnea), the overall effect on colonoscopy quality metrics is not significant. Given its increased cost, propofol should be used judiciously and without the implicit expectation of a higher quality screening exam.

Sincerely,

**William Ross, MD, Professor**

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