

Impact of Fellow/Resident Involvement during Colonoscopy in a High-Volume Colorectal Surgical Practice

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Introduction

- The ability to perform complete, efficient colonoscopies is paramount to population health.
- According to the American Society of Colon and Rectal Surgeons (ASCRS), the average colonoscopy should last between 15-30 minutes.¹
- By the end of their fellowship, it is imperative that fellows perform colonoscopies in an efficient and effective manner similar to that of attendings.

Objective

- To evaluate the efficiency of colonoscopies performed by colorectal surgery fellows as they progress through their training while taking patient bowel preparation into consideration.

Results

| Level of Bowel Prep | Number of Cases | Average Colonoscopy Time (min.) |
|---------------------|-----------------|---------------------------------|
| Excellent | 470 | 16.6 |
| Good | 647 | 18.33 |
| Fair | 33 | 20.64 |
| Adequate | 61 | 24.79 |

Progression of Fellow Colonoscopy Times throughout Academic Year

First Six Months:
27.98 min.

Second Six Months:
24.91 min.

Average Colonoscopy Times

Attending:
17.30 min.

vs.

Fellows:
27.81 min.

Methods

- Retrospective data collection of colonoscopy patients from 2015-20 using various electronic medical records (EMR).

Patient Information

MEDEDENT

Colonoscopy Times

EPIC (LVHN);
Provations &
Cyfluent (Endo Center)

Followup

- Fellow training sessions may need to bolster more colonoscopy simulations before real world application.
- Continued insistence on bowel preparation for patient comfort, as well as surgical efficiency.

¹Wexner et al. "A Consensus Document on Bowel Preparation Before Colonoscopy." *American Society of Colon and Rectal Surgeons*, 2 May. 2016.