



Suryanarayana Reddy Challa, MD¹, Sneha Adidam, MD¹, Nehal Patel, MD², Krystal Mills, MD³, Sravan K. Ponnekanti, MD⁴, Harsha Surath, MD⁵, Srikanth Adidam Venkata, MD⁶, Vishakha Sirpal, MD⁷, Krystal Amoroso, MD⁸, Asma Gilani, MD⁹, Gagan Singh, MD¹, Amandeep Singh, MD¹⁰, Philip Oppong-Twene, MD¹, Angesom Kibreab, MD¹, Farshad Aduli, MD¹, Adeyinka Laiyemo, MD, MPH¹ ¹Howard University Hospital, Washington, DC; ²Captain James A. Lovell Federal Health Care Center, North Chicago, IL; ³Morehouse School of Medicine, Atlanta, GA; ⁴Guthrie Robert Packer Hospital, Sayre, PA; ⁵Arnot Ogden Medical Center, Elmira, NY; ⁶Brookdale University Hospital Medical Center, Brooklyn, NY; ⁷Rutgers Health/Monmouth Medical Center, Long Branch, NJ; ⁸Ascension St. Joseph Hospital, Chicago, IL; ⁹Parkview Health System, Pueblo, CO; ¹⁰East Liverpool City Hospital, East Liverpool, OH

Introduction

Fecal occult blood testing (FOBT) is an outpatient screening tool for colorectal cancer. It is widely misused in the hospital setting, without accounting for false positives or negatives resulting in unnecessary endoscopic procedures, increased costs and increased length of stay.

The aim of our study is to understand the knowledge and current utilization of FOBT among internal medicine residents from multiple programs across the USA.

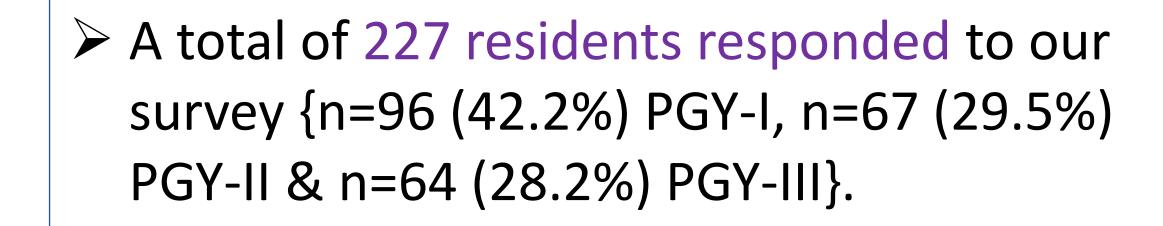
Methods and Materials

This is a multicenter survey conducted by a GIfellow in about 25 Internal Medicine Residency programs in Washington-DC, Pennsylvania, New York, New Jersey, Florida, Indiana, Illinois, Georgia, and California.

A 15-questionnaire survey on FOBT was emailed on May 18th, 2022, with follow-up reminders until June 3rd, 2022.

We considered the end of the academic year as an ideal time to evaluate the understanding and clinical practice of internal medicine trainees.

Assessment of Occult Blood Testing in Acute Hospital Settings: A Multicenter GI Fellow Driven Study



- > Overall, 66.7% i.e., 2/3rd of residents sometimes or always ordered FOBT and 67.4% have ordered this test more often in inpatient than in outpatient settings.
- > Approximately 60% of the residents had knowledge of dietary restrictions but only 32% of the residents were questioning the patients before ordering it.

Table

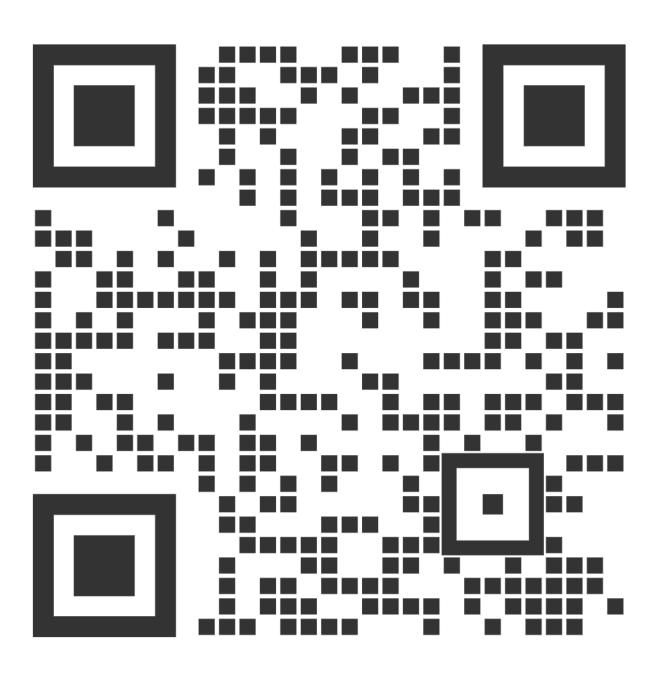
	For a suspected GI Bleed, which of the following would you consider first			Logistic regression analysis, comparing PGY-I with PGY-II & III		
Postgraduate Year	GI Consult	FOBT	Odds Ratio	Confidence Interval	P-Value	
PGY – I	34 (35.4%)	62 (64.6%)	Ref	Ref	Ref	
PGY – II	28 (41.8%)	39 (58.2%)	0.76	0.40 - 1.44	0.820	
PGY – III	37 (43.6%)	27 (56.4%)	0.40	0.21 - 0.77	0.006	

Results cont...

- > The triggers for ordering FOBT were mostly anemia (92.5%) followed by change in stool color (61%), weight loss (60%) and bleeding per rectum (47.5%).
- > 62% of respondents felt influenced by their supervisors and 57.2% felt that FOBT results will change their management.
- > Overall, as postgraduate year training increased, trainees were less likely to order FOBT for suspected GI bleeding (Table)
- ➢ 68.2% of residents were somewhat/not confident and only 0.04% were completely confident in interpreting the FOBT results

Statistical analysis comparing the level of training with preference to FOBT vs. GI Consult for a suspected GI Bleed





Scan to check survey questionnaire and responses

Discussion

Our survey results showed that residents were influenced by their supervisors and ordered FOBT largely in the inpatient setting.

Although there was noted improvement in understanding of the futility of FOBT in suspected acute GI bleeding, more than half of final year trainees would still order FOBT first.

There is a need for better education of internal medicine trainees in the utilization of FOBT.

Contact:

schalla@huhosp.org