



Lack of reliability of self-reports by patients with advanced colorectal polyps

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Virtually all guidelines concerning screening for colorectal cancer in the United States recommend that health care providers rely on self-reports of personal history of colorectal polyps and cancer in their patients as well as their first-degree relatives.¹ Specifically, health care providers are required to rely on self-reports by their patients to perform risk stratification. All such guidelines assume that patients have an accurate knowledge of their personal history, and have communicated the information to their first-degree relatives.

Our primary goal was to address the reliability of self-reports by quantitating patient knowledge and communication to first-degree relatives concerning removal of their advanced colorectal polyp. The availability a single large pathology laboratory accredited by the College of American Pathologists that services 55 endoscopy practices afforded a unique opportunity to collect information concerning the knowledge of the patient of their biopsy proven advanced colorectal polyp as well as their communication to first-degree relatives.

The protocol was approved by the Institutional Review Board of Florida Atlantic University (IRB Net ID 734261-1). During the period between July 1, 2013 and June 30, 2017, there were 249 consecutive patients aged 40 to 91 years who had colonoscopies that led to a diagnosis of biopsy proven advanced

colorectal polyps. After obtaining informed consent, we were able to secure complete interview data from a case series of 84 willing and eligible patients (33.7%). The self-reports by patients about their knowledge of their biopsy proven diagnosis as well as their communication to first-degree relatives were obtained from brief telephone interviews that consisted of eleven questions from semi-structured questionnaires. The interviews were conducted by 1 of 2 female medical assistants certified by American Medical Technologies. The questionnaires contained information on first, the knowledge of patient concerning his or her biopsy proven diagnosis of advanced colorectal polyps, second, the communication of their biopsy proven diagnosis to their first-degree relatives.

For each variable, the data were coded and frequencies of the self-reports of their biopsy proven diagnosis of advanced colorectal polyps as well as their communication to their first-degree relatives were calculated.

Of the 84 patients, 39 (46.4%) were men, 45 were women, and their mean age was 66 with a range from 41 to 91 years. Among the 84 patients with biopsy proven advanced colorectal polyps, 10 (11.9%) were unaware that they had undergone removal of a polyp. In addition, 46 patients (54.8%) did not inform their first-degree relatives. Finally, 69 (82.1%) were unaware of the type of polyp removed and, therefore, could not know that they had been diagnosed with advanced colorectal polyps.

In this case series of 84 patients with biopsy proven colorectal polyps, 11.9% were unaware that any polyp had been re-

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moved, 82.1% were unaware of the advanced nature of their polyps, and 54.8% failed to inform their first-degree relatives. These data indicate a lack of reliability of self-reports by patients with biopsy proven advanced colorectal polyps. These data contrast with the reliability of self-reports and communication to first-degree relatives of colorectal cancer.² Perhaps not surprisingly, these findings suggest that patients are far less likely to recall the diagnosis of benign, albeit advanced, colorectal polyps than a diagnosis of colorectal cancer. Thus, it seems rational for clinicians to be able to rely on self-reports and communication to family members of colorectal cancer but not benign, albeit advanced, polyps.

Several limitations to this study merit consideration. First is the low response rate which may, at least in theory, have led to a biased result.³ Although we cannot accurately estimate either the magnitude or direction of any bias, we believe that the respondents in this case series are more likely to represent a more knowledgeable subgroup than the general U.S. population. Specifically, this study population is homogeneous with regard to having health insurance as well as residing in 4 relatively affluent counties in South Florida (Broward, Dade, Martin, and Palm Beach). In addition, health care literacy tends to correlate with socioeconomic status.⁴ We believe that such socioeconomic factors are unlikely to affect the validity but may influence the generalizability of the findings as the lack of reliability of self-reports is likely to be even greater among the uninsured and less affluent. As a consequence, these results are likely to underestimate the lack of reliability of both personal knowledge of the patient of their biopsy proven diagnosis of advanced colorectal polyps as well as their accurate communication to first-degree relatives.

Despite these and other potential limitations, we believe the most plausible interpretation of the data to be that they contribute to the formulation of the hypothesis that clinicians may not be able to rely on self-reports of biopsy proven advanced colorectal polyps as well as their communication to first-degree relatives. Busy clinicians are faced with the challenging task of obtaining accurate data regarding personal and family history to decide upon the most appropriate strategies to screen and detect colorectal cancer in their patients. To do so, clinicians may wish to consider gathering reliable histologic data on personal and family history of colorectal polyps. These efforts should include younger patients in whom the incidence of colorectal cancer is increasing.⁵ The increases in colorectal cancer may be due, at least in part, to the epidemics of overweight and obesity^{6,7} as well as type 2 diabetes mellitus.⁸ Pri-

mary prevention efforts are paramount and major challenges to busy clinicians. Another major challenge in screening is to obtain more reliable information from patients about their personal history of colorectal polyps and achieving better communication to their first-degree relatives. Overcoming these clinical challenges will enhance prevention and screening efforts but must include the acquisition of reliable data about colorectal polyps as well as the communication to first-degree relatives. These multifactorial approaches should achieve the most good for the most patients concerning prevention as well as screening and early diagnosis and treatment of colorectal cancer.

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CONFLICT OF INTEREST

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AUTHOR CONTRIBUTION

BF: study concept and design, data acquisition, interpretation, drafting and revising manuscript. LF: data acquisition, administrative, technical and material support, interpretation, revising manuscript. MD: data analysis and interpretation, revising manuscript. KA, LD and GRL: revising questionnaire, obtaining IRB approval, revising manuscript. CHH: study design, questionnaire development, interpretation, revising manuscript.

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