

## RESEARCH LETTER

# Primary Care Clinician Decision-Making Around Surveillance Colonoscopies in Older Adults with Prior Adenomas

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**Introduction:** While guidelines recommend against routine colorectal cancer screening in adults >75 years and/or those with limited life expectancies, there is no clear guidance on when surveillance colonoscopies following prior adenoma detection should stop. How primary care clinicians weigh the potential risks and benefits of surveillance colonoscopies in older adults with prior adenomas is unknown.

**Methods:** We conducted semistructured in-person interviews with 30 primary care clinicians from 21 clinics in Maryland. We asked how clinicians decided whether to continue or stop surveillance colonoscopies in older adults (65+ years) with prior adenomas. Interview transcripts were independently coded by 2 investigators using qualitative content analysis.

**Results:** Participants described a range of decision-making approaches. Some deferred to specialists because they did not feel confident making decisions about stopping surveillance in light of the higher cancer risk involved. Some took a more active role and discussed the decision with patients and/or specialists. Other clinicians felt comfortable stopping surveillance colonoscopies and made these decisions based on patient age, comorbidities, or life expectancy.

**Discussion:** We found a range of decision-making approaches among primary care clinicians on whether to continue surveillance colonoscopies in older adults with prior adenomas. Separate bodies of evidence currently exist on how prior adenoma characteristics influence colorectal cancer risk and on how older age and declining health influence the benefit/harm balance of screening. Information is lacking on the benefits and harms of surveillance in older adults with prior adenomas. Developing the evidence to address this knowledge gap is critically needed to inform clinical decision making. (J Am Board Fam Med 2020;33:796–798.)

**Keywords:** Aging, Clinical Decision Making, Colonoscopy, Colorectal Cancer, Decision Making, Early Detection of Cancer, Life Expectancy, Maryland, Mass Screening, Primary Health Care, Qualitative Research, Risk Assessment

## Introduction

High-quality screening colonoscopies are expected to have an adenoma detection rate of at least 25%, resulting in a large number of older adults (65+ years)

with history of adenomas.<sup>1</sup> While guidelines recommend against routine colorectal cancer screening in adults >75 years and/or those with limited life expectancies,<sup>2,3</sup> there is no clear guidance on when

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surveillance colonoscopies following prior adenoma detection should stop. How primary care clinicians weigh the potential risks and benefits of surveillance colonoscopies in older adults with prior adenomas has not been previously explored.

## Methods

We conducted semistructured in-person interviews with 30 primary care clinicians from 21 clinics in Maryland. Clinicians were recruited from academic geriatric and primary care clinics affiliated with Johns Hopkins Medicine; the Johns Hopkins Community Physicians, which is the largest outpatient community group practice in Maryland; and 16 private practices not affiliated with Johns Hopkins Medicine. Maximum variation sampling sought to recruit clinicians diverse in age, gender, clinician type, specialty, and practice type. We asked how clinicians decided whether to continue or stop surveillance colonoscopies in older patients 65 years or older with prior adenomas. Data collection (October 2018 to May 2019) was guided by iterative assessment for theme saturation. The interviews were audio-recorded, transcribed verbatim, and was independently coded by 3 investigators (NS, JM, RP) using qualitative content analysis.

## Results

Participants described a range of decision-making approaches (Table 1). Most commonly, participants said that they would defer to gastroenterologists to make decisions about stopping surveillance colonoscopies (12/30). Some participants mentioned that they would discuss the decision with the patients and/or specialists and make the decision together (5/30).

A subset of participants was more comfortable with stopping surveillance colonoscopies (7/30) and described the scenarios in which they would do so. Some mentioned specific age cutoffs—stopping surveillance at age 80 or age 85 years. Some said that they would stop surveillance when patients have limited life expectancy and/or multiple serious health conditions. One clinician described individualizing the decision based on the recommended interval at which to repeat the surveillance colonoscopy and the patient's predicted life expectancy

*"First I make sure that I agree with the interval [that is] being recommended. . . then I stop when the patient*

**Table 1. Characteristics and Responses from 30 Maryland Primary Care Clinicians on Decision Making about Colorectal Cancer Surveillance in Older Patients with Prior Adenomas (Data Collection October 2018 to May 2019)**

Characteristics	No. (%) or Mean (SD)
Age, years	48.2 (10.0)
Female sex	16 (53%)
Race	
White	18 (60%)
African American	6 (20%)
Other	6 (20%)
Degree	
Physician	24 (80%)
Certified registered nurse practitioner	5 (17%)
Physician's assistant	1 (3%)
Years since completing training	17.5 (10.2)
Specialty	
Internal medicine	17 (57%)
Family medicine	6 (20%)
Medicine/pediatrics	2 (7%)
Geriatrics	5 (17%)
Clinic site	
Urban	13 (43%)
Suburban	17 (57%)
Clinic type	
Clinics affiliated with academic university	8 (27%)
Clinics within a large group practice	14 (47%)
Solo clinics	5 (17%)
House-call program for homebound patients	1 (3%)
Program for all-inclusive care of the elderly	2 (7%)
Proportion of patients ≥65 years old in patient panel	
<25%	7 (23%)
25% to 49%	13 (43%)
50% to 74%	4 (13%)
>75%	6 (20%)
Decision-making approach regarding surveillance in older patients with prior adenomas*	
Deferred to GI	12 (40%)
Discussed with patient and/or GI to make decision together	5 (17%)
Described stopping surveillance based on patient age, comorbidities, or life expectancy	7 (23%)
Favored continued surveillance	1 (3%)
Decision depended on specific patient characteristics	3 (10%)

GI, gastroenterology; SD, standard deviation.

\*Two participants did not give direct responses about decision making around surveillance colonoscopies in the interviews.

*is within that number of years of death. So if it's 1 or 2 not very concerning polyps under a centimeter. . . and they are on a 5-year plan then I'm gonna stop 5*

*years before death. Someone who has had multiple polyps greater than a centimeter. . . on a 3-year or shorter interval we are probably not gonna stop until we really see a life-ending diagnosis.”*

Others (3/30) said the decision would depend on specific patient characteristics, such as the size, number, and pathology of the adenomas. One participant expressed worry about missing colorectal cancers and said that at times he preferred patients to continue surveillance even when gastroenterologists had suggested stopping. Two participants commented that decisions around surveillance colonoscopies were challenging but did not provide details on their decision-making approaches.

## Discussion

We found a range of decision-making approaches among primary care clinicians on whether to continue surveillance colonoscopies in older adults with prior adenomas. Many deferred to gastroenterologist recommendations; however, literature suggests that gastroenterologists tend to recommend earlier followup compared with guidelines contributing to overuse of colonoscopies.<sup>4</sup> Although some primary care clinicians mentioned making surveillance decisions based on patient age, comorbidities, or life expectancy, we found no consensus on how these factors were weighed against the history of adenomas. Separate bodies of evidence exist on how prior adenoma characteristics influence colorectal cancer risk and on how older age and declining health

influence the benefit/harm balance of screening.<sup>2,3,5</sup> Information is lacking on the benefits and harms of surveillance in older adults with prior adenomas. Developing the evidence to address this knowledge gap is critically needed to inform clinical decision making.

*To see this article online, please go to: <http://jabfm.org/content/33/5/796.full>.*

## References

1. Rex DK, Boland CR, Dominitz JA, et al. Colorectal cancer screening: recommendations for physicians and patients from the U.S. Multi-Society Task Force on Colorectal Cancer. *Gastroenterology* 2017;153:307–23.
2. Lin JS, Piper MA, Perdue LA, et al. Screening for colorectal cancer: updated evidence report and systematic review for the US Preventive Services Task Force. *JAMA* 2016;315:2576–94.
3. Qaseem A, Crandall CJ, Mustafa RA, Hicks LA, Wilt TJ. Clinical Guidelines Committee of the American College of Physicians. Screening for colorectal cancer in asymptomatic average-risk adults: a guidance statement from the American College of Physicians. *Ann Intern Med* 2019;171:643–54.
4. Kruse GR, Khan SM, Zaslavsky AM, Ayanian JZ, Sequist TD. Overuse of colonoscopy for colorectal cancer screening and surveillance. *J Gen Intern Med* 2015;30:277–83.
5. Gupta S, Lieberman D, Anderson JC, et al. Recommendations for follow-up after colonoscopy and polypectomy: a consensus update by the US Multi-Society Task Force on Colorectal Cancer. *Gastroenterology* 2020;158:1131–53.e5.