# A Rare Case of Duodenal Adenocarcinoma Discovered by Cologuard



## Introduction

- According to the American Cancer Society, colorectal cancer is the third leading cause of cancer-related deaths in men and in women, although the death rate continues to decrease due to the increased rate of colon cancer screening.
- Non-invasive colon cancer screening is continuing to become more prominent in preventative medicine with Cologuard noting a sensitivity of 92% for colorectal cancer (CRC) at specificity of 87% for negative samples confirmed by colonoscopy.

### **Case Presentation**

- A 74-year-old woman with past medical history of invasive ductal carcinoma of the right breast s/p lumpectomy and chemoradiation therapy, Grave's disease, and former smoker presents for an annual health maintenance visit.
- Of note, the patient's last colonoscopy was 12 years ago and unremarkable. Due to her age and previous benign screenings, her primary care physician opted for Cologuard for continued colorectal cancer screening, which returned positive.
- At this examination, the patient complained of mild reflux disease symptoms. The patient stated her appetite was normal and denied weight loss.
- Physical exam was unremarkable. Due to her mild reflux symptoms and positive Cologuard, her primary care physician prompted her to see a gastroenterologist for evaluation.
- The gastroenterologist performed a colonoscopy and an endoscopy (EGD) due to the patient's symptoms and Cologuard results. The colonoscopy revealed a solitary diminutive polyp. However, the EGD demonstrated a near circumferential adenomatous lesion in the first portion of the duodenum.

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- Cologuard is an FDA approved form of colon cancer screening that tests for blood and atypical DNA within stool; it is a noninvasive first line form of screening for colon cancer that is recommended yearly. Following any abnormal results with this initial screening, it is recommended that the patient undergo a colonoscopy.
- There is minimal literature regarding Cologuard and small bowel carcinomas. As such, this finding makes this a particularly unique case and raises the possibility for future study of Cologuard's ability to be expanded to detection of carcinoma of the small bowel.

