Acute Appendicitis Following Colonoscopy

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ABSTRACT

Background: Acute appendicitis after colonoscopy is a rare sequela and may be incidental or a true complication of colonoscopy. This review explores the cause and effect relationships between colonoscopy and the development of acute appendicitis.

Methods: We conducted a systematic review of the literature to identify articles up to July 2011. The following time intervals were collated from documented cases to evaluate the natural history of postcolonoscopy appendicitis: time from colonoscopy to symptom onset, time from symptom onset to presentation (preadmission delay), and time from symptom onset to surgery. Postadmission delay was then estimated.

Discussion: Paucity of published cases on postcolonoscopy appendicitis may be the result of acute appendicitis being incidental after colonoscopy or because of under-recognition of this complication. The close association between colonoscopy and the onset of symptoms of acute appendicitis suggests a relationship between the procedure and pathology. However, at present, the data available are inadequate to give firm details on the natural history of acute appendicitis after colonoscopy. Shared symptomatology and examination findings between postcolonoscopy appendicitis and common colonoscopic complications such as colonic perforation and postpolypectomy syndrome result in delayed diagnosis. Our findings suggest that delayed surgical intervention is associated with increased morbidity and mortality and is clinician dependent in a majority of cases.

Conclusion: Regardless of whether postcolonoscopy appendicitis represents an incidental finding or true complication of colonoscopy, consideration of acute appendicitis as a differential diagnosis of the acute abdomen after colonoscopy is important.

Key Words: Colonoscopy, Postcolonoscopy, Acute appendicitis.

INTRODUCTION

Colonoscopy is generally a safe procedure that may enable visual examination from anus to cecum. Biopsy of lesions and therapeutic interventions such as polypectomy are commonly performed during colonoscopy and are associated with a higher incidence of postprocedural complications.1 Bleeding episodes, colonic perforation, and abdominal pain are known complications of colonoscopy, and the incidences of these complications have been reported to be 0.21%, 0.1%, and 0.08%, respectively, in an Australian teaching hospital environment.1 The risk of perforation of the colon is, however, higher with polypectomy, estimated at 0.3% to 1.0%.1 Postpolypectomy syndrome is a recognized complication that occurs after polypectomy with electrocoagulation and is characterized by abdominal pain, fever, and leukocytosis without evidence of perforation.2

Acute appendicitis after colonoscopy is a rare sequela, reflected in the paucity of literature available on this condition. We identified 30 cases in 24 articles since the first reported case by Houghton and Aston in 1988. The few published cases of postcolonoscopy appendicitis may be the result of acute appendicitis being incidental after colonoscopy or because of under-recognition of this complication.3 The latter may be the result of successful con-
servative treatment, such as intravenous antibiotics instituted for a clinical diagnosis of limited perforation in the absence of adequate diagnostic imaging such as computed tomography (CT).

We propose that progression of symptoms and clinical signs of acute appendicitis after colonoscopy is rapid and thus accurate clinical recognition is imperative. This review explores the cause and effect relationships between colonoscopy and the development of acute appendicitis after this procedure.

Case

A 47-year-old man underwent colonoscopy for investigation of rectal bleeding. Two rectal polyps were removed during the procedure. He was discharged shortly after the procedure and was able to tolerate oral intake later that evening. Thirteen hours after colonoscopy, he awoke with sharp, constant, generalized abdominal pain associated with nausea. He had not had a bowel movement or passed flatus after the procedure. He presented to the emergency department 4 hours after the onset of symptoms, approximately 17 hours after the procedure. He was noted to be afebrile but had lower abdominal tenderness, especially of the right lower quadrant.

Routine hematologic studies revealed neutrophilia but a normal C-reactive protein level. There was no free subdiaphragmatic air on his erect chest radiograph. A plain abdominal radiograph showed fecal material in the right colon but was otherwise unremarkable. The clinical impression was a limited perforation or postpolypectomy syndrome secondary to colonoscopy. Because of this suspicion, a CT scan of the abdomen and pelvis was arranged, and showed no extraluminal gas or free fluid. Incidentally, a retrocecal appendix containing an appendicolith and distended to 13 mm was identified (Figures 1 and 2). There was, however, minimal associated mesenteric fat stranding. Serial clinical examinations revealed rapid development of a low-grade fever and well-localized right lower quadrant peritonism.

In light of this clinical progression, he underwent exploratory laparoscopic surgery 22 hours after the onset of symptoms, 18 hours after his presentation to the emergency department. A 5-hour postadmission delay to surgery was unavoidable because of an unavailability of emergency operating rooms. Visualization of the abdominal cavity revealed postileal suppurative appendicitis with free pus in the pelvis. The procedure was converted to a midline laparotomy because the appendix could not be mobilized safely. Postoperatively, he was treated with intravenous antibiotics (amoxicillin, metronidazole, and gentamicin) for 24 hours, followed by a further 5 days of oral antibiotics (amoxicillin/clavulanate). He made an unremarkable recovery and was discharged on the third postoperative day.

METHODS

A systematic review of the literature was performed to identify articles up to July 2011. Searches were conducted using the PubMed, Medline, and EMBASE databases. Relevant abstracts and full text articles about acute appendicitis after colonoscopy were selected from articles generated with the following search terms: appendicitis/etiology, colonoscopy/adverse effects, postcolonoscopy, and polypectomy. A manual search was also conducted through references of articles. Full-text articles were sourced through interlibrary requests if they were unavailable from electronic health databases. No language restrictions were applied. All foreign language articles were translated into English by fluent speakers in both the language of the original text as well as English. All translators had an understanding of medical terminology. There were no restrictions on the time to onset of symptoms from colonoscopy to be considered a complication of the procedure.
The following time intervals were collated from documented cases to evaluate the natural history of postcolonoscopy appendicitis:

A. Time from colonoscopy to symptom onset.

B. Time from symptom onset to presentation (preadmission delay).

C. Time from symptom onset to surgery.

The time from presentation to surgery (postadmission delay) was estimated by subtracting B from C. The total delay from symptom onset was obtained by adding preadmission and postadmission delay. Qualitative time descriptions were converted to quantitative time intervals measured in hours. Time intervals to symptom onset, presentation to hospital, and surgery occurring on the day of colonoscopy were estimated to be 12 hours from colonoscopy, whereas events after the day of the procedure were approximated to the nearest 24-hour time interval.

RESULTS

Table 1 shows data collated from the review of 31 cases: 24 articles comprising 30 case reports in addition to the authors’ case. The patient demographic data consisted of 22 male patients (71%) and 9 female patients (29%). The combined mean age was 55.5 years (range: 24–84). Eight patients underwent a diagnostic colonoscopy exclusively, and 23 patients had an intervention performed, with polypectomy being the most common intervention.

The median time to symptom onset from colonoscopy was 12 hours, ranging from immediately after to 5 days after colonoscopy (Table 2). Twenty-three (74%) patients had symptoms within 24 hours of colonoscopy, with 19 (61%) of the total number of patients experiencing symptom onset within 12 hours of their procedure. The remaining 8 patients (26%) experienced symptom onset between 25 hours and 5 days after colonoscopy.

The patient diagnoses were divided into 2 major groups: 15 (48.4%) with an acutely inflamed appendix and 16 (52%) with complicated appendicitis (Figure 3). Complicated appendicitis cases included diagnoses of phlegmonous appendicitis, perforated appendicitis, and pelvic appendiceal abscess, which numbered 4 (13%) cases, 11 (36%) cases, and 1 case (3%), respectively.

Time intervals of postcolonoscopy appendicitis were semiquantitatively compared with the natural history of conventional appendicitis to determine whether time to surgery was a result of patient or clinician delay. Only 11 of 31 cases were analyzed because insufficient documentation precluded comparison of the remaining cases. Ten of 11 (91%) cases of delay to surgery were attributable to the length of time taken for in-hospital evaluation, whereas the remaining case demonstrated both patient and clinician delay. Six of 11 (55%) perforations, 1 case of...
<table>
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pelvic appendiceal abscess, and both deaths in the documented cases were among the 11 cases we reviewed.

Cases were classified into 4 treatment groups, with outcomes as demonstrated in Figure 4. Four patients were presumed to have an acutely inflamed appendix without perforation on the basis of clinical examination and CT imaging and were treated conservatively with antibiotic therapy alone. This group of patients improved over 3 to 6 days, and no complications or deaths were documented in this group of patients.

Nine patients were initially treated conservatively with antibiotic therapy or watchful waiting. However, these patients proceeded to appendectomy because of clinical progression. A review of these case reports shows that colonic perforation, postpolypectomy syndrome, or both of these conditions were considered as initial diagnoses in 6 of 9 cases. These patients were presumably treated conservatively initially because of the absence of pneumoperitoneum found on radiographs and failure to consider acute appendicitis in the differential diagnosis. Despite CT findings demonstrating acute appendicitis and clinical findings of acute appendicitis, one patient in this group was initially treated conservatively.

Two deaths that were identified in our review belonged to this second management category. The first death occurred ten weeks after appendectomy and was attributed to sepsis in the setting of advanced cardiac and renal disease. The second mortality occurred 29 days post colonoscopy and was attributed to multiorgan failure after delayed diagnosis and surgery for a pelvic appendiceal abscess.

The 17 patients who were treated with early appendectomy had uneventful recoveries and shorter hospital stays compared with patients who were initially treated conservatively. CT imaging was performed in 14 of 18 patients, and all findings showed changes consistent with appendicitis.

One patient had an unremarkable recovery after initial treatment with antibiotic therapy before undergoing a planned interval appendectomy.

**DISCUSSION**

Since the first case of acute appendicitis after colonoscopy was described by Houghton and Aston in 1988, only 24 similar articles have been published. As suggested by Houghton and Aston in their landmark article, the true incidence of this problem may be more common than the literature would suggest because of under-recognition, response to nonsurgical treatment, or spontaneous resolution. However, despite the increase in colonoscopy use in the past decade, its reported incidence has not risen. This suggests that postcolonoscopy appendicitis may well be an incidental pathology resulting from subclinical disease and not a true complication of colonoscopy.

Should there be a true relationship between colonoscopy and acute appendicitis, the advancement in our understanding of the etiology and pathogenesis has been limited and is largely theoretical. Several hypotheses have been proposed to explain the pathophysiologic mechanisms of acute appendicitis after colonoscopy. Aside from incidental appendicitis or pre-existing subclinical disease, these include barotrauma, propagation of a fecalith into...
the appendiceal lumen because of gas insufflation, and edema as a result of intubation of the appendiceal lumen.6,7,10 These mechanisms may result in obstruction of the appendiceal lumen and subsequent progression to inflammation, gangrene, and perforation. Because all of these mechanisms are hypothetical or anecdotal, the absence of knowledge may contribute to under-recognition of acute appendicitis after colonoscopy.

Although acute appendicitis is a common and well-recognized reason for patients to present with acute abdominal pain, reports of acute appendicitis after colonoscopy share a common theme of delayed diagnosis and delayed surgical intervention.26 The problem presented by acute appendicitis after colonoscopy may be the existence of shared symptomatology and examination findings with common colonoscopic complications such as colonic perforation and postpolypectomy syndrome. Hence, judicious use of radiologic investigations can improve diagnostic accuracy. The lack of awareness of acute appendicitis as a potential pathology in patients presenting with an acute abdomen after colonoscopy may also be contributory.

Seventy four percent of patients with acute appendicitis after colonoscopy developed symptoms of abdominal pain within 24 hours after their procedure. The close association between colonoscopy and the onset of symptoms suggests a relationship between the procedure and pathology. However, the diagnosis of postcolonoscopy appendicitis has been largely based on clinician opinion because of the lack of an established definition. The terms postcolonoscopy appendicitis and acute appendicitis complicating colonoscopy have been used interchangeably to describe acute appendicitis diagnosed at indefinite time intervals after colonoscopy. Acute appendicitis complicating colonoscopy implies a causal relationship between colonoscopy and acute appendicitis. Hence, the term acute appendicitis following colonoscopy or postcolonoscopy appendicitis is used preferentially because it avoids this connotation.

The conventional model of the natural history of appendicitis proposes that progression from simple to complicated appendicitis is a time-related process, with an increasing incidence of perforation correlating with an increase in the duration of symptoms.29 In Andersson’s review article, he proposes an alternative explanation that challenges this observation: He suggests that the apparent increase in the proportion of perforated appendicitis with

Figure 4. Treatment groups and outcomes in postcolonoscopy appendicitis.

Figure 4. Treatment groups and outcomes in postcolonoscopy appendicitis.
time is caused by selection because many cases of acute appendicitis undergo spontaneous resolution.28

The natural history of postcolonoscopy appendicitis is variable but appears to follow a more acute course, with a higher rate of progression to advanced pathology, when compared with conventional acute appendicitis. Sixteen of 31 (52%) patients were diagnosed with complicated appendicitis compared with 16% to 28% in studies by Temple et al and Moss et al.27,29 However, this apparent higher rate of complications may be a result of selection bias because patients with postcolonoscopy appendicitis treated conservatively on a presumptive diagnosis of postpolypectomy syndrome may respond well to conservative treatment. Consequently, uncomplicated postcolonoscopy appendicitis may be underreported, leading to a higher rate of complications associated with appendicitis after colonoscopy compared with conventional appendicitis.

Although preadmission delay accounted for a delay in surgery for conventional appendicitis, postadmission delay led to increased time to surgical intervention in patients with postcolonoscopy appendicitis.27,29 Patients with abdominal pain after colonoscopy were less likely to delay seeking medical attention compared with patients with conventional acute appendicitis, presumably because these patients were made aware of the symptoms of potential complications of the procedure. Delayed surgery in postcolonoscopy appendicitis can be explained by low clinical suspicion with or without failed conservative treatment. A semiquantitative comparison of 11 documented cases of conventional appendicitis shows that half of the total cases of perforation were clinician-dependent events. Although perforation may occur regardless of time factors, it does not negate the role of early diagnosis and surgery in limiting the sequelae of appendiceal perforation rather than preventing perforation.24

Progression of appendicitis despite initial conservative treatment with antibiotics resulted in delayed surgical intervention and was associated with increased morbidity and mortality. Frequent serial clinical examinations are recommended to detect advancing peritonism and hasten surgical intervention. Prompt appendectomy has long been the definitive treatment and standard of care for acute appendicitis because of the risk of progression to advanced pathology. This study demonstrates that the severity of pathology and complication rate in adult patients with acute appendicitis may be time dependent and therefore suggests that delaying appendectomy is unsafe. An acute surgery model in patients with acute appendicitis demonstrates that reducing the delay from the time of diagnosis to the operating room translates to a 47% risk reduction in perforation, a 56% risk reduction in complications, and a hospital stay of one fewer day.30

Polypectomy was performed in nearly 70% (21 of 31) of the cases reviewed, but no pathophysiologic relationship between polypectomy and postcolonoscopy appendicitis was suggested. A history of polypectomy may have resulted in a delayed diagnosis and initial nonoperative management because of a presumptive diagnosis of post-polypectomy syndrome in the absence of pneumoperitoneum.

Propagation of a fecalith into the appendiceal lumen during gas insufflation, although seemingly plausible, remains anecdotal because the presence of a fecalith has not been uniformly found in cases of acute appendicitis after colonoscopy. The presence of a fecalith was identified in 8 cases by means of radiologic imaging, gross surgical specimen analysis, or histology. The absence of a fecalith, however, was reported in 8 cases based on histologic findings, which suggest that an alternative mechanism of luminal obstruction may be contributory.

The natural history of acute appendicitis is variable and thus difficult to compare with postcolonoscopy appendicitis. Furthermore, the lack of an objective definition of postcolonoscopy appendicitis means that the diagnosis is based on clinician opinion. Accuracy of our retrospective study of the natural history of postcolonoscopy appendicitis is limited by the lack of quantitative data regarding its time frames and management. The reliability and precision of estimates must be interpreted with caution because of the small sample size.

CONCLUSION

Acute appendicitis after colonoscopy may be incidental or may be a true complication of colonoscopy. At present, the data available are inadequate to provide firm details on the natural history of acute appendicitis after colonoscopy. Regardless of whether postcolonoscopy appendicitis represents an incidental finding or a true complication of colonoscopy, consideration of acute appendicitis as a differential diagnosis of the acute abdomen after colonoscopy is important. It may minimize delayed diagnosis and thus reduce possible morbidity and mortality. It may also guide the decision of whether a conservative or surgical treatment algorithm is followed. There should be a multidisciplinary awareness of acute appendicitis as a potential
complication of colonoscopy to facilitate effective management.

References: