CLINICAL STUDY

Is a routine preoperative rectosigmoidoscopy necessary in patients with bilateral inguinal hernia?

Akbaba S, Ersoy E, Gundogdu H, Yasar U

Ataturk Research and Educational Hospital, Department of General Surgery, Ankara, Turkey.
perenersoy@gmail.com

Abstract: Objectives: The purpose of this prospective study was to evaluate the association between bilateral inguinal hernias and colorectal cancers.

Purpose: Inguinal hernias are one of the most common subjects in surgical practice and have been known to be associated with some other pathologies since 1831. Although there are some series in literature reporting the association of colorectal cancers with inguinal hernias, it is still controversial to perform colorectal diagnostic tools in hernia patients. Colorectal cancers are particularly accused to be in association with synchronous bilateral hernias as they increase the intra-abdominal pressure.

Methods: Rectosigmoidoscopy was performed in 110 consecutive bilateral hernia patients and the results were recorded prospectively. Patients having colorectal diseases were excluded.

Results: There were no pathologies in 87 (%79.1) rectosigmoidoscopies, while benign pathologies (hemorrhoids, polyps and diverticulitis) were diagnosed in 23 (%20.9).

Conclusions: It has not been proved yet that colorectal cancers increase the incidence of bilateral inguinal hernias. The incidence of benign pathologies in our series was similar to that of same age population without hernia. As a conclusion of this study we believe that rectosigmoidoscopy is not necessary for synchronous bilateral hernias unless the patient has any complaints or risk factors. Colorectal screening tools are performed when the clinical findings or the story of the patient support colorectal cancers (Tab. 1, Ref. 25). Full Text in PDF www.elis.sk.

Key words: bilateral inguinal hernias, rectosigmoidoscopy.

In 1831, Sir Astley Cooper noticed the association between inguinal hernia, one of the very common diseases subjected to surgical procedure today, and certain chronic gastrointestinal disorders (1). In 1963 Terezis et al reported in their series of 107 colon cancer that 22.5 % of them had inguinal hernia at the time of diagnosis or within 2 years (2). After that, some researchers began to recommend routine preoperative colorectal screening in patients with inguinal hernia (3–7). Then this association was questioned in some studies, and data had not verified the results (8–11). However, there have been no studies published on the association between sudden bilateral inguinal hernias and colorectal pathologies. A prospective study was planned to investigate this issue.

Materials and methods

Ethical committee approval has been obtained for the study to assess the patients with sudden inguinal hernia by rectosigmoidoscopy. Between 2005–2010, 110 consecutive patients presented with bilateral inguinal hernia and in preparation for operation underwent preoperative rectosigmoidoscopy after obtaining an informed consent. Patients were excluded if they had any gastrointestinal complaint, medical history of colorectal disease and family history of polyp or cancer. The clinical and colorectal screening findings were recorded, and the results were followed prospectively.

Results

The study population consisted of 108 male (98.18 %) and 2 female (1.82 %) patients with a median age of 50.24 years (range 25–79 years, median: 52). Whereas 87 patients (79.1 %) had normal rectosigmoidoscopy findings, 23 had (20.9 %) various benign pathologies, including hemorrhoids in 13 (%20.9). None of the patients had malignancy. All these pathologies except hemorrhoid were found in patients over 40 years of age.

The most common comorbidities were prostate diseases (20 %), chronic pulmonary diseases (12.7 %), and hypertension (12.7 %). While 96 of the patients had primary inguinal hernia (87.3 %), 10 had (9.1 %) primary on one side and recurrent on the other, and 4 patients had (3.6 %) bilateral recurrent inguinal hernia. In addition, preoperatively undetected femoral hernia was found in 2 patients during operation (1.8 %). Sixty patients (54.5 %) received general anaesthesia and 50 (45.5 %) epidural anaesthesia, and all of them underwent bilateral Lichtenstein hernia repair. None of the patients developed a postoperative major problem.
The incidence of colorectal cancer is between 0–5%, and that of adenomatous polyps is 0–31%. These rates are not above the values that are detected in the screening of 50 years of age individuals in normal population. Therefore, it has not been proven that the patients with inguinal hernia have shown a higher rate of colorectal neoplasm or precancerous lesions compared to normal population.

In this study, we determined that 20.9% of the patients had pathological findings, and when hemorrhoids were excluded, the rate of the other findings was 9%. When we consider all these lesions are seen in patients over age 40, we may say that our rates are similar to the incidences observed in normal population.

Although colorectal pathologies were not considered as a risk factor listed in European Hernia Society guideline, published in 2009, “the actual risk factors that could cause the development of hernia” were included among the suggested topics for future research (25). Therefore, this issue will remain on the agenda for a while.

It is very important to screen the population at risk for colorectal cancer, which is the second most common cause of cancer deaths after lung cancer. Screening of asymptomatic persons with an average risk of cancer will decrease the mortality rate by providing early detection of cancers in curable period, as well as the incidence of cancer by eliminating precancerous lesions.

We have concluded that in patients with bilateral inguinal hernia, even if of a sudden, routine colorectal screening is not necessary if they do not have symptoms or risk factors. Colon screening should be done only if supported by clinical findings and medical history and a full colonoscopy should be preferred.

## References


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