A case of collagenous colitis with cryptogenic organizing pneumonia

Yasuyuki Taooka, Yuka Ide, Yusuke Higashi, Gen Takezawa

ABSTRACT

Abstract is not required for Clinical Images
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CASE REPORT

A 73-year-old female during the treatment of cryptogenic organizing pneumonia (COP) consulted our outpatient clinic complained of chronic diarrhea lasting more than six months. There was no body weight loss, and she did not feel severe abdominal pain. Twelve months prior consultation, prednisolone and lansoprazole were started to be administrated against COP. Since the patient had a past history of peptic ulcer, proton pump inhibitor (PPI) was also started against the adverse effect of corticosteroid therapy. Administration of corticosteroid and lansoprazole was also continued, because of repeating recurrence and improvement of COP. On physical examination, abdomen showed no significant abnormal findings. Stool color was normal, and stool occult blood examination was also negative. And stool bacterial culture did not show abnormal finding. Blood laboratory examination showed as following; white blood cell count 4,890/µL, hemoglobin 15.0 g/dL, platelet count 199,000/mL, total protein 6.7 g/dL, albumin 4.1 g/dL, AST 34 IU/mL, ALT 31 IU/mL, LDH 196 U/mL (normal range: 106–211) fasting blood sugar level 78 mg/dL, amylase 118 IU/L, Na 142 mEq/L, K 3.8 mEq/L, Cl 108 mEq/L, Ca 9.6 mg/dL C-reactive protein 0.0 mg/dL, CEA 1.1 ng/mL, CA19–9 12.4 U/mL, and KL-6 302 U/mL (normal range: 0–499). Esophagogastroduodenoscopy showed peptic ulcer scar formation. Colon endoscopic examination showed diffuse cloudiness with small fine granule-like surface change from rectum to transverse colon (Figure 1). Biopsy samples of colon and rectal mucosa revealed infiltration of inflammatory cells into mucosal layer. And submucosal layer and homogenous, amorphous deposition of collagen fiber was recognized under the surface epithelial cells (subepithelial collagen band) (Figure 2). The diagnosis of collagenous colitis was performed and administration of lansoprazole was discontinued. A few weeks later, watery diarrhea spontaneously discontinued. Six months later, treatment of COP was finished. No recurrence of COP and collagenous colitis after three year.

DISCUSSION

Collagenous colitis is known as one of microscopic colitis, and induces watery diarrhea and chronic colorectal inflammation [1]. As the cause of collagenous colitis with this case, involvement of lansoprazole was suspected. After discontinue of administration
of lansoprazole, chronic diarrhea was also stopped. Although it is rare, collagenous colitis is known as the one of the adverse effect of PPI. The COP is classified into one of idiopathic interstitial pneumonias. Etiology of COP is still remained uncertain. And interstitial pneumonia and COP sometimes complicates other organ disorders and connective tissue disease [2, 3]. As long as we examined, only two case reports discussing about interstitial pneumonia and collagenous colitis were reported so far [4, 5]. Recently, aberrant T cell response and Th1 cytokine were reported to be involved in inflammation of collagenous colitis [6]. Therefore, we could not rule out the possibility of mutual relationship between collagenous colitis and COP. Although both interactions are unclear, there are no reports to deny their interaction. In this case, collagenous colitis occurred during the treatment of COP, and collagenous colitis did not relapse since after remission of COP. Finally, this case was diagnosed as having lansoprazole induced collagenous colitis. Already there are many reports about relevance between PPI and collagenous colitis [5, 7–9]. This case had a past history of administration of rabeprazole against peptic ulcer, and there was no diarrhea during administration. Furthermore, this case was treated with omeprazole one year later after remission of COP, and there was not an episode of recurrence of watery diarrhea. After having the diagnosis of collagenous colitis, lansoprazole did not used again in this case. These means collagenous colitis of the case was highly associated with lansoprazole, not other kinds of PPI.

CONCLUSION

A rare case of collagenous colitis was reported. When having chronic diarrhea during treatment with proton pump inhibitors (PPI) including lansoprazole, possibility of adverse effect of PPI should be considered. Colon fiberscopic examination is useful for its diagnosis.

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Keywords: Collagenous colitis, Cryptogenic organizing pneumonia, Lansoprazole

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Author Contributions

Yasuyuki Taooka – Substantial contributions to conception and design, Acquisition of data, Analysis and interpretation of data, Drafting the article, Revising it critically for important intellectual content, Final approval of the version to be published

Yuka Ide – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

Yusuke Higashi – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

Gen Takezawa – Analysis and interpretation of data, Revising it critically for important intellectual content, Final approval of the version to be published

Guarantor

The corresponding author is the guarantor of submission.

Conflict of Interest

Authors declare no conflict of interest.

Figure 2: Pathological findings of colon mucosa: Biopsy samples showing infiltration of inflammatory cells into mucosal layer and submucosal layer and homogenous, amorphous deposition of collagen fiber was recognized under the surface epithelial cells.
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